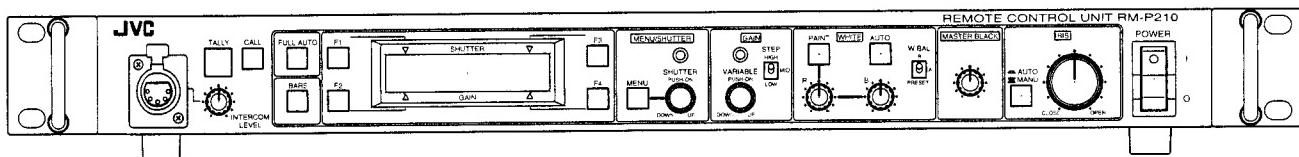


# JVC

## SERVICE MANUAL

### REMOTE CONTROL UNIT

# RM-P210U(A)/RM-P210E(A)



As the result of the production process change to from external to internal affecting the model numbers specified below, the internally produced RM-P210 units have the letter "(A)" added to their rating label and are identified by the model names RM-P210U(A) and RM-P210E(A).

However, the changes are exclusively in the parts used, and there is no change in the functions or adjustment methods.

This service manual only describes the matters that are different from the RM-P210. On servicing, refer to the service manual (No. 60136) for RM-P210 together with this. The "TECNICAL INFORMATION" on back of the cover shows differences between RM-P210 and RM-P210(A).

RM-P210U(A) xxxx0145 and after

RM-P210E(A) xxxx0217 and after

## ■ TECHNICAL INFORMATION

### MAIN COMPARISON BETWEEN RM-P210 AND RM-P210(A)

DIFFERENCES	RM-P210		RM-P210(A)	REMARKS
<b>DIP SWITCH SETTING OF MAIN BOARD</b>				
S1	8 switches		2 switches	Used No.1 and No.2 Function does not change
<b>Packing assembly &lt;M1&gt;</b>				
Power cable	U	SCV3045-P-0014U	QMPE160-244-K	
	E	SCV3045-P-0015E	QMPL018-250-R	
<b>RM-P210 assembly &lt;M2&gt;</b>				
AC INLET (symbol 10)	QNC0087-001		QNC0088-001	
FOOT (symbol 16)	QZF1510-001		QZF2008-002	
BOARD BRACKET (symbol 19)	SCV3045-001		Deleted	
<b>Board assembly</b>				
MAIN board assembly <01>	U	SCV3045-PB502A(1)-N Miss printed on the manual	SCK2655-01-N0A	Upper compatible (Note) Pattern is changed to include SUB1 board
	E	SCV3045-PB502A(1)-P Miss printed on the manual	SCK2655-01-P0A	
FR1 board assembly <02>	SCV3045-PB503(1) Miss printed on the manual		SCK2655-02-00A	Upper compatible (Note)
FR2 board assembly <03>	SCV3045-PB503(2) Miss printed on the manual		SCK2655-03-00A	Upper compatible (Note)
CC board assembly <04>	SCV3045-PB502A(2) Miss printed on the manual		SCK2655-04-00A	Upper compatible (Note)
SUB1 board assembly <05>	SCV3045-SUB1		Deleted	Included in MAIN board

#### (Note) Compatibility of board assembly

The board assemblies in the RM-P210 can be replaced with the board assemblies for the RM-P210(A). However, when changing the MAIN board assembly, it is required to remove the SUB1 board and connect the power supply wire from the CC board directly to CN26 on the MAIN board.

## TABLE OF CONTENTS

### ■ IMPORTANT SAFETY PRECAUTIONS

<b>3. CHARTS AND DIGRAMS .....</b>	<b>3-1</b>
3.1 MAIN/FR1/FR2/CC/SUB1 BOARD SCHEMATIC DIAGRAM <b>0-1 / 0-2 / 0-3 / 0-4 / 0-5 .....</b>	<b>3-1</b>
3.2 MAIN CIRCUIT BOARD <b>0-1 .....</b>	<b>3-2</b>
3.3 FR1 CIRCUIT BOARD <b>0-2 .....</b>	<b>3-2</b>
3.4 FR2 CIRCUIT BOARD <b>0-3 .....</b>	<b>3-2</b>
3.5 CC CIRCUIT BOARD <b>0-4 .....</b>	<b>3-2</b>
3.6 IC BLOCK DIAGRAM .....	<b>3-3</b>
<b>4. EXPLODED VIEW AND PARTS LIST .....</b>	<b>4-1</b>
4.1 RM-P210 ASSEMBLY <b>M-2 .....</b>	<b>4-1</b>
<b>5. ELECTRICAL PARTS LIST .....</b>	<b>5-1</b>
5.1 MAIN BOARD ASSEMBLY PARTS LIST <b>0-1 .....</b>	<b>5-2</b>
5.2 FR1 BOARD ASSEMBLY PARTS LIST <b>0-2 .....</b>	<b>5-7</b>
5.3 FR2 BOARD ASSEMBLY PARTS LIST <b>0-3 .....</b>	<b>5-8</b>
5.4 CC BOARD ASSEMBLY PARTS LIST <b>0-4 .....</b>	<b>5-8</b>
<b>6. PACKING .....</b>	<b>6-1</b>
6.1 PACKING ASSEMBLY <b>M-1 .....</b>	<b>6-1</b>

# Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

## ●Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the symbol ( ) parts are critical for safety.

Replace only with specified part numbers.

**Note:** Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.

Caution for continued protection against fire hazard.

Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:

- 1) Wires covered with PVC tubing
- 2) Double insulated wires
- 3) High voltage leads

5. Use specified insulating materials for hazardous live parts.

Note especially:

- |                    |                                      |            |
|--------------------|--------------------------------------|------------|
| 1) Insulation Tape | 3) Spacers                           | 5) Barrier |
| 2) PVC tubing      | 4) Insulation sheets for transistors |            |

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

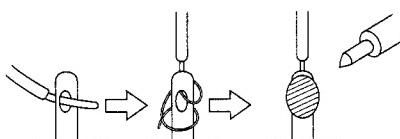


Fig.1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

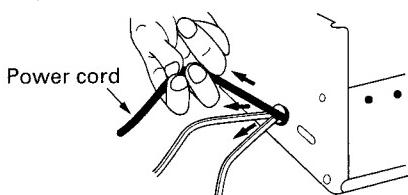


Fig.2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)

In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector

In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

1) **Connector part number :** E03830-001

2) **Required tool :** Connector crimping tool of the proper type which will not damage insulated parts.

3) **Replacement procedure**

- (1) Remove the old connector by cutting the wires at a point close to the connector.  
Important : Do not reuse a connector (discard it).

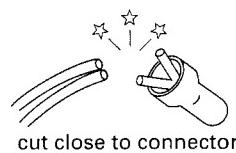


Fig.3

- (2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

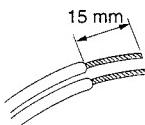


Fig.4

- (3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

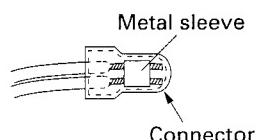


Fig.5

- (4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

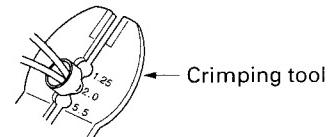


Fig.6

- (5) Check the four points noted in Fig.7.

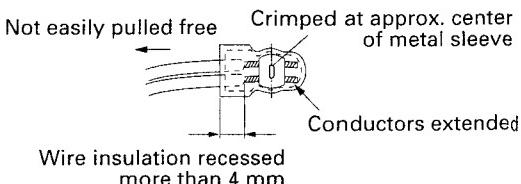


Fig.7

## ● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

### 1. Insulation resistance test

Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

### 2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

### 3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance ( $d$ ), ( $d'$ ) between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

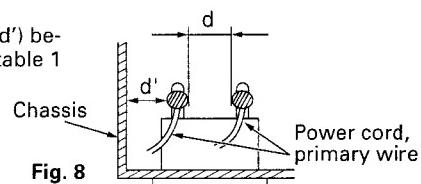


Fig. 8

### 4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

#### Measuring Method : (Power ON)

Insert load  $Z$  between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load  $Z$ . See figure 9 and following table 2.

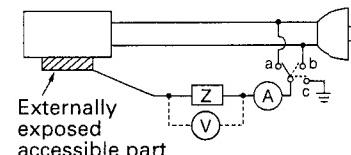


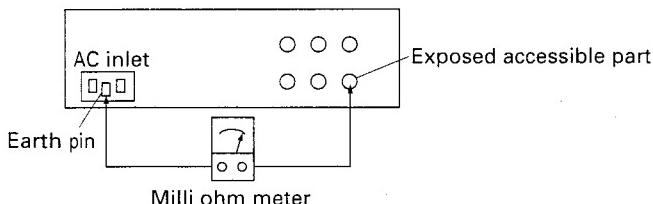
Fig. 9

### 5. Grounding (Class I model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

#### Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.



#### Grounding Specifications

Region	Grounding Impedance ( $Z$ )
USA & Canada	$Z \leq 0.1 \text{ ohm}$
Europe & Australia	$Z \leq 0.5 \text{ ohm}$

Fig. 10

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance ( $d$ ), ( $d'$ )
100 V	Japan	$R \geq 1 \text{ M}\Omega/500 \text{ V DC}$	AC 1 kV 1 minute	$d, d' \geq 3 \text{ mm}$
100 to 240 V			AC 1.5 kV 1 minute	$d, d' \geq 4 \text{ mm}$
110 to 130 V	USA & Canada	-	AC 900 V 1 minute	$d, d' \geq 3.2 \text{ mm}$
110 to 130 V 200 to 240 V	Europe & Australia	$R \geq 10 \text{ M}\Omega/500 \text{ V DC}$	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	$d \geq 4 \text{ mm}$ $d' \geq 8 \text{ mm} \text{ (Power cord)}$ $d' \geq 6 \text{ mm} \text{ (Primary wire)}$
200 to 240 V				

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	$\text{---} \sim 1 \text{ k}\Omega$	$i \leq 1 \text{ mA rms}$	Exposed accessible parts
110 to 130 V	USA & Canada	$0.15 \mu\text{F} \sim 1.5 \text{ k}\Omega$	$i \leq 0.5 \text{ mA rms}$	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	$\text{---} \sim 2 \text{ k}\Omega$	$i \leq 0.7 \text{ mA peak}$ $i \leq 2 \text{ mA dc}$	Antenna earth terminals
220 to 240 V		$\text{---} \sim 50 \text{ k}\Omega$	$i \leq 0.7 \text{ mA peak}$ $i \leq 2 \text{ mA dc}$	Other terminals

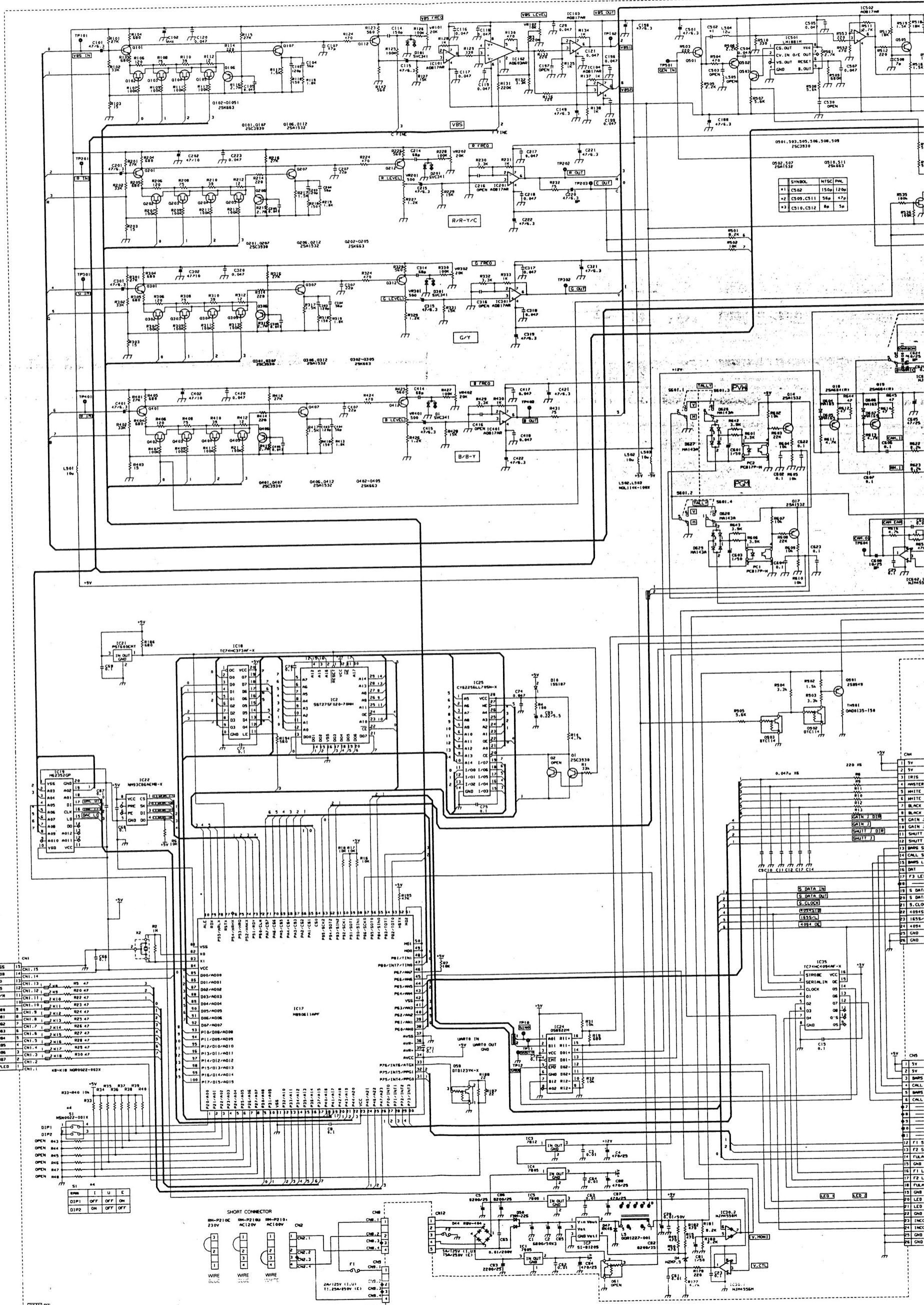
Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

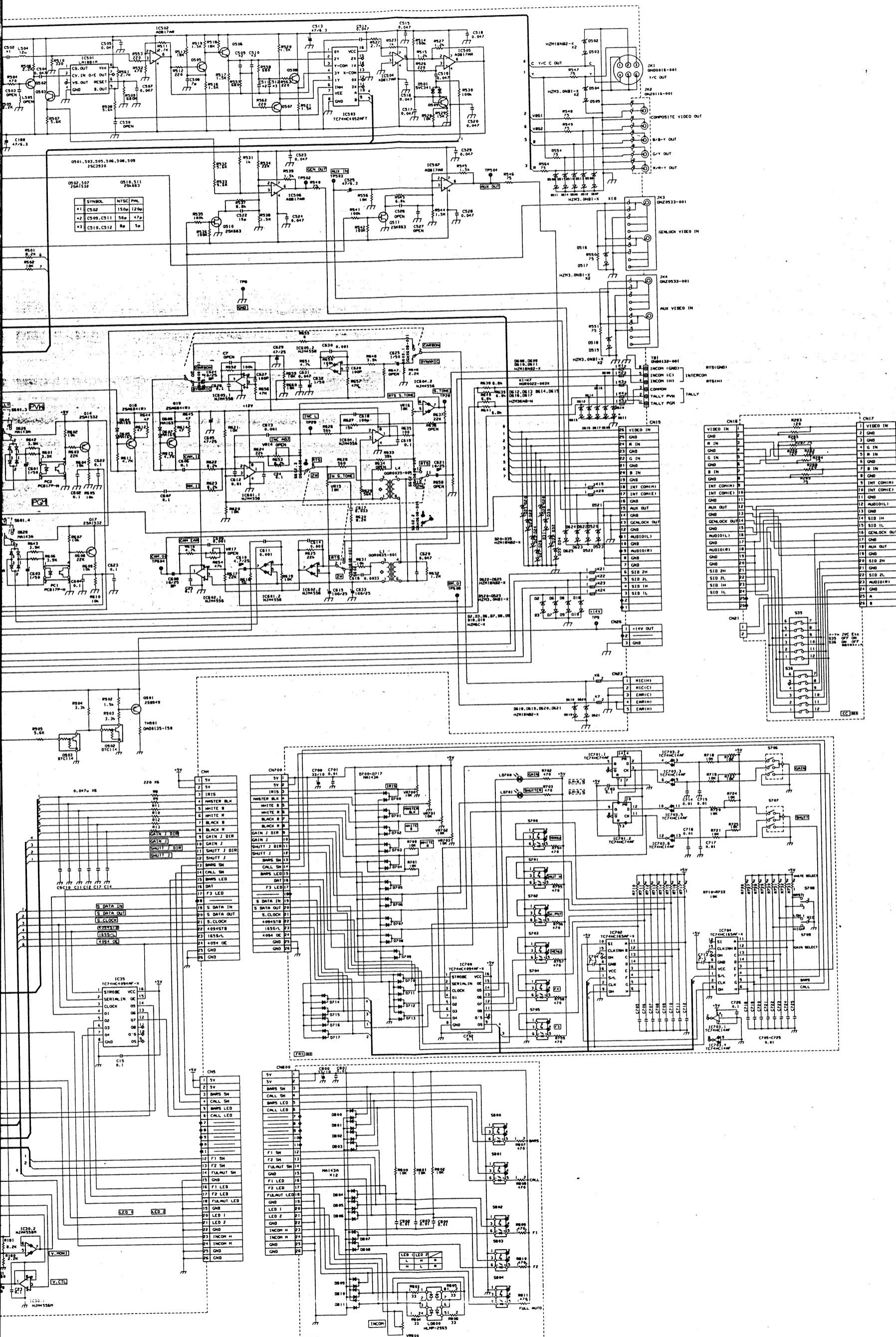
## **SECTION 3**

### **DIAGRAMS AND CIRCUIT BOARDS**

### 3.1 MAIN/FR1/FR2/CC SCHEMATIC DIAGRAM 01 / 02 / 03 / 04

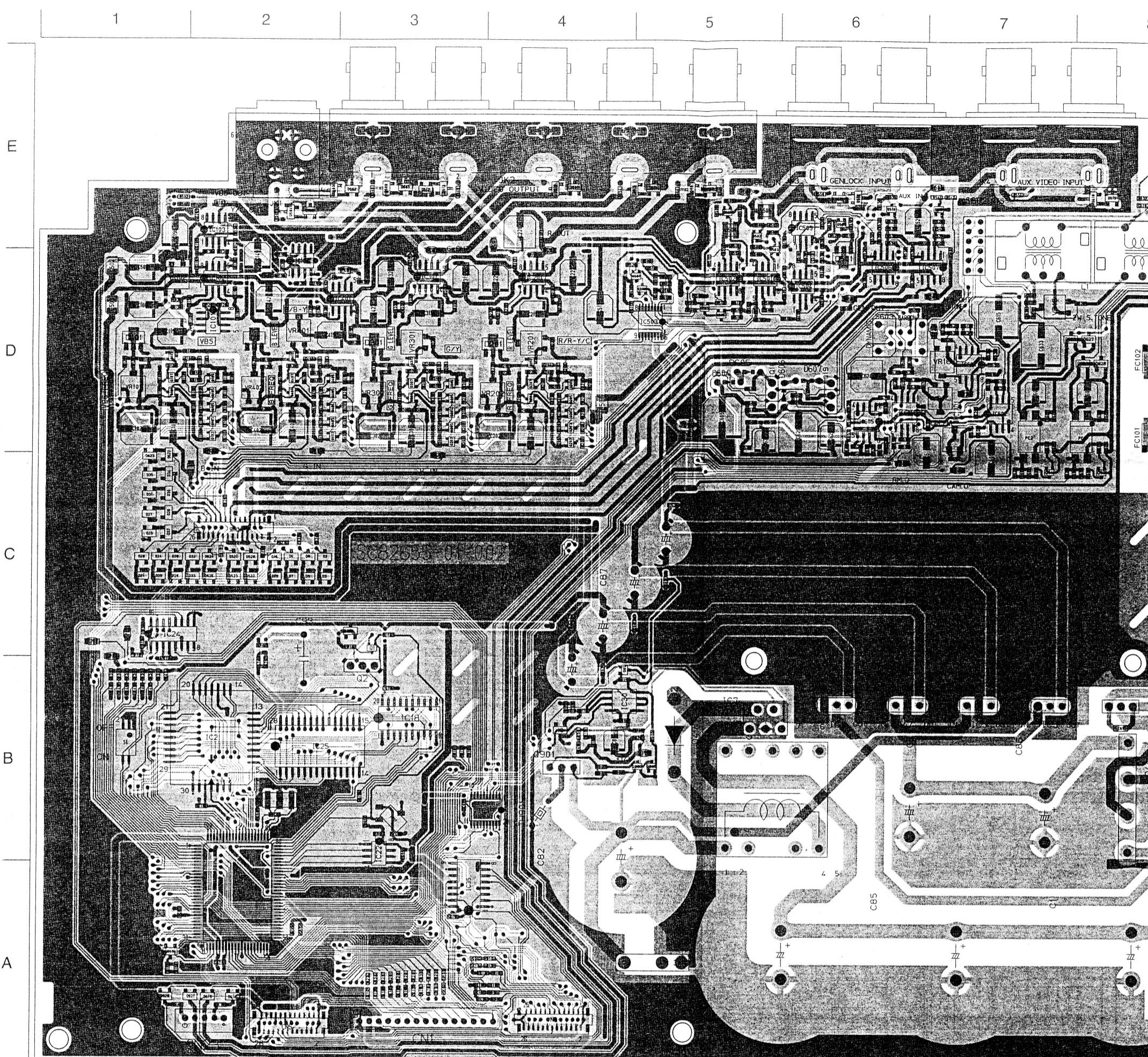


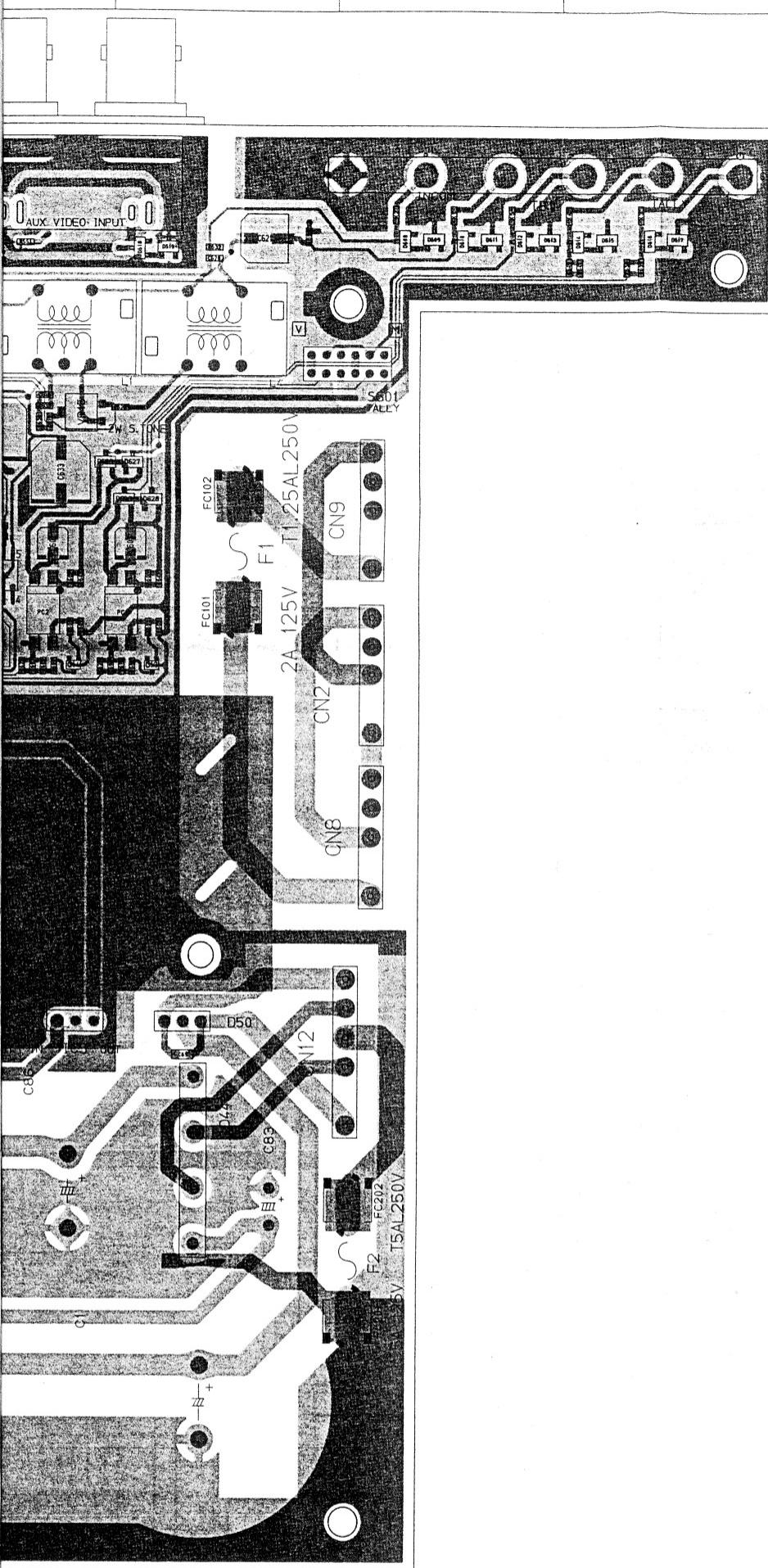
## SECTION 3 AMS AND CIRCUIT BOARDS



3.2 MAIN CIRCUIT BOARD 0|1

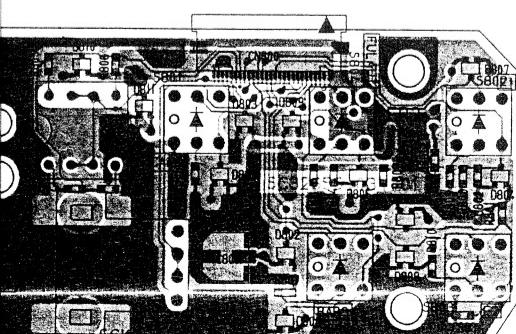
- SIDE A -





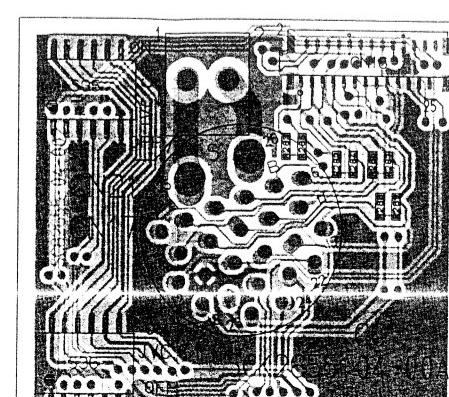
FR2 CIRCUIT BOARD (03)

— SIDE A —



3.5 CC CIRCUIT BOARD (04)

— SIDE A —



## ● ADDRESS TABLE OF BOARD PARTS

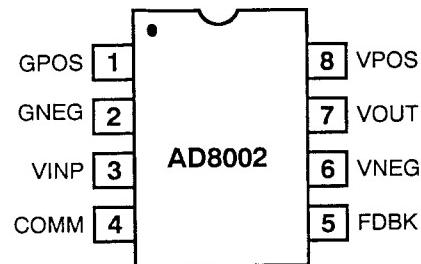
Each address may have an address error by one interval.

A-1C  
Side    Y axis  
          X axis

IC1	A-6B	D10	A-2B	R22	A-3A	R229	A-4D	R543	A-6D	C23	A-4B	C505	A-5D	S602	A-7D
IC2	A-1B	D18	A-2C	R23	A-2A	R230	A-3D	R544	A-6D	C24	A-6C	C507	A-5D	S603	A-6C
IC3	A-7B	D19	A-2B	R24	A-3A	R231	A-3D	R545	A-7D	C25	A-7C	C508	A-5D		
IC4	A-6B	D20	A-1C	R25	A-3A	R232	A-4D	R546	A-6D	C26	A-4B	C509	A-4D	PC1	A-7C
IC5	A-7B	D21	A-1B	R26	A-3A	R301	A-3C	R547	A-2D	C29	A-1D	C510	A-4D	PC2	A-7C
IC7	A-5B	D22	A-1C	R27	A-3A	R302	A-3C	R548	A-2D	C61	A-4B	C511	A-5D		
IC17	A-2A	D23	A-1C	R28	A-3A	R303	A-3C	R549	A-3D	C62	A-4B	C512	A-5D	TP8	A-5C
IC18	A-3B	D24	A-1C	R29	A-3A	R304	A-3C	R550	A-6D	C63	A-5B	C513	A-4D	TP9	A-4B
IC19	A-3A	D25	A-1B	R30	A-3A	R305	A-3C	R551	A-7D	C64	A-4B	C514	A-5D	TP10	A-1B
IC21	A-3A	D26	A-1C	R31	A-1B	R306	A-3C	R552	A-5D	C65	A-8B	C515	A-5D	TP11	A-1B
IC22	A-3A	D27	A-1C	R32	A-1B	R307	A-3C	R553	A-5D	C66	A-2A	C516	A-6D	TP12	A-1B
IC24	A-1B	D28	A-1C	R33	A-1B	R308	A-3C	R554	A-4D	C67	A-3B	C517	A-6D	TP28	A-7C
IC25	A-2B	D29	A-1B	R34	A-1B	R309	A-3C	R556	A-6D	C68	A-3A	C518	A-5D	TP29	A-6D
IC30	A-4B	D30	A-1C	R35	A-1B	R310	A-3C	R557	A-5D	C69	A-3A	C519	A-6D	TP101	A-1C
IC35	A-3A	D31	A-1C	R36	A-1B	R311	A-3C	R558	A-5D	C71	A-1A	C520	A-6D	TP102	A-1D
IC101	A-1D	D32	A-1C	R37	A-1B	R312	A-3C	R561	A-5D	C72	A-1B	C522	A-6D	TP201	A-3C
IC102	A-1D	D33	A-1B	R38	A-1B	R313	A-3C	R562	A-4D	C74	A-2B	C523	A-6D	TP202	A-4D
IC103	A-1D	D34	A-1C	R39	A-1B	R314	A-3C	R563	A-4D	C75	A-2B	C524	A-6D	TP203	A-3D
IC104	A-2D	D35	A-1C	R40	A-1B	R315	A-3C	R564	A-5D	C76	A-1B	C525	A-6D	TP301	A-2C
IC201	A-4D	D44	A-8B	R43	A-1B	R316	A-3C	R601	A-7C	C77	A-3B	C526	A-6D	TP302	A-3D
IC301	A-3D	D47	A-5B	R44	A-1B	R317	A-3C	R602	A-7C	C81	A-4B	C527	A-6D	TP401	A-1C
IC401	A-2D	D50	A-8B	R45	A-1B	R318	A-3C	R603	A-7C	C82	A-4A	C528	A-6D	TP402	A-2D
IC501	A-5D	D101	A-1C	R46	A-1B	R319	A-3C	R604	A-7C	C83	A-8A	C529	A-6D	TP501	A-5D
IC502	A-5D	D201	A-3C	R47	A-1B	R324	A-3C	R605	A-7C	C84	A-4B	C530	A-5D	TP502	A-6D
IC503	A-4D	D301	A-2C	R48	A-1B	R328	A-3C	R606	A-8C	C85	A-7A	C601	A-7C	TP503	A-6D
IC504	A-5D	D501	A-6D	R49	A-4B	R329	A-3C	R607	A-8C	C86	A-7B	C602	A-7C	TP504	A-6D
IC505	A-5D	D502	A-2D	R50	A-4B	R330	A-2C	R608	A-2C	C87	A-4C	C603	A-7C	TP604	A-7C
IC506	A-6D	D503	A-2D	R101	A-1C	R331	A-3D	R609	A-8C	C88	A-4B	C604	A-7C	TP608	A-6C
IC507	A-6D	D504	A-2D	R102	A-1C	R332	A-3D	R610	A-7C	C93	A-2B	C605	A-5C		
IC601	A-6C	D505	A-2D	R103	A-1C	R333	A-3D	R611	A-5C	C101	A-1C	C606	A-6C	FC101	A-8C
IC602	A-7C	D506	A-5D	R104	A-1C	R401	A-2C	R612	A-5C	C102	A-1C	C607	A-6C	FC102	A-8C
IC604	A-7C	D507	A-3D	R105	A-1C	R402	A-2C	R613	A-6C	C103	A-1C	C608	A-7C	FC201	A-9A
IC605	A-6C	D508	A-3D	R106	A-1C	R403	A-2C	R614	A-5C	C104	A-1C	C609	A-7C	FC202	A-9A
Q1	A-2B	D510	A-4D	R108	A-1C	R405	A-2C	R617	A-7C	C107	A-1C	C611	A-6C	VR14	A-6C
Q2	A-2B	D511	A-5D	R109	A-1C	R406	A-2C	R618	A-6C	C114	A-1C	C612	A-6C	VR15	A-7D
Q14	A-7C	D512	A-3D	R110	A-1C	R407	A-2C	R619	A-6C	C115	A-1D	C613	A-6C	VR16	A-6C
Q17	A-8C	D513	A-3D	R111	A-1C	R408	A-2C	R620	A-6C	C116	A-2D	C614	A-7C	VR17	A-7C
Q18	A-5C	D514	A-4D	R112	A-1C	R409	A-2C	R621	A-6C	C117	A-4D	C615	A-7D	VR101	A-1C
Q19	A-6C	D515	A-4D	R113	A-1C	R410	A-2C	R622	A-6C	C118	A-1D	C616	A-7D	VR102	A-1D
Q59	A-1A	D516	A-6D	R114	A-1C	R411	A-2C	R623	A-6C	C119	A-2D	C617	A-7D	VR201	A-4C
Q61	A-4B	D517	A-6D	R115	A-1C	R412	A-2C	R624	A-6C	C120	A-1C	C618	A-7D	VR202	A-3C
Q101	A-1C	D518	A-8D	R116	A-1C	R413	A-2C	R625	A-7C	C121	A-2D	C619	A-7C	VR301	A-3C
Q102	A-1C	D519	A-8D	R117	A-1C	R414	A-2C	R626	A-7C	C149	A-2D	C620	A-8D	VR302	A-2C
Q103	A-1C	D520	A-2C	R118	A-1C	R415	A-2C	R627	A-7D	C188	A-1D	C621	A-8D	VR401	A-2D
Q104	A-1C	D521	A-2C	R119	A-1C	R416	A-2C	R628	A-7D	C196	A-2D	C622	A-7C	VR402	A-2C
Q105	A-1C	D522	A-2B	R123	A-1C	R417	A-2C	R629	A-7D	C197	A-1D	C623	A-7C		
Q106	A-1C	D523	A-2B	R124	A-1C	R418	A-2C	R630	A-7D	C198	A-1D	C624	A-6C	CN1	A-3A
Q107	A-1C	D604	A-5C	R125	A-1C	R424	A-2C	R631	A-7C	C199	A-2D	C625	A-6C	CN2	A-9C
Q112	A-1C	D605	A-5C	R126	A-1C	R425	A-2C	R632	A-8D	C201	A-4C	C626	A-6C	CN4	A-4A
Q201	A-4C	D606	A-5C	R127	A-1D	R426	A-2C	R633	A-7D	C202	A-3C	C627	A-6C	CN5	A-2A
Q202	A-4C	D607	A-6C	R128	A-1D	R427	A-2C	R634	A-6D	C203	A-4C	C628	A-6C	CN8	A-9B
Q203	A-4C	D608	A-9D	R129	A-1D	R428	A-2C	R635	A-7C	C204	A-4C	C629	A-5C	CN9	A-9C
Q204	A-4														

### 3.6 IC BLOCK DIAGRAMS

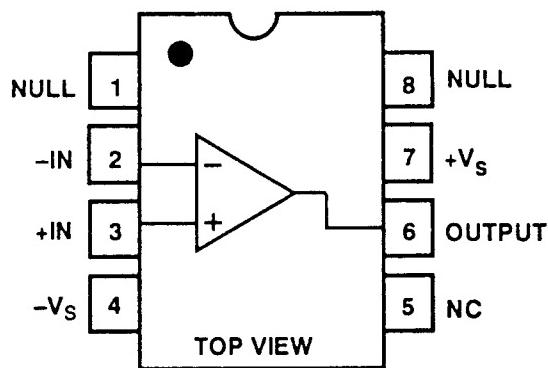
#### ■ AD603AR-X [ANALOG DEVICES] (Variable Gain CTL Amplifier)



■ Pin function

Pin No.	Pin Name
1	GPOS Gain CTL Input " HI "
2	GNEG Gain CTL Input " LOW "
3	VINP Amp. Input
4	COMM GND
5	FDBK Feedback
6	VNEG Vss
7	VOUT Output
8	VPOS V <sub>DD</sub>

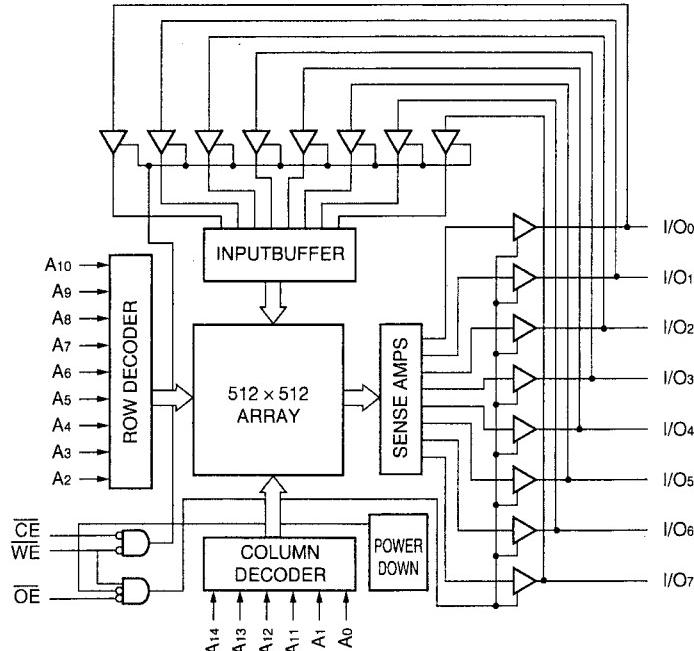
#### ■ AD817AR-X [ANALOG DEVICES] (Hi-Speed Low Power Op.Amp)



NC = NOT CONNECTED

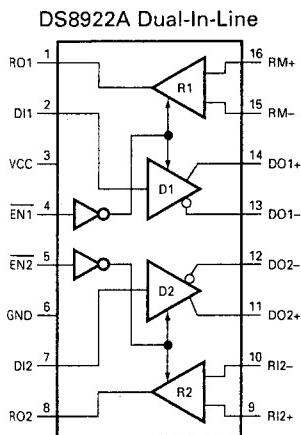
#### ■ CY62256LL70SN-X [CYPRESS] (32k x 8 Static RAM)

A <sub>5</sub>	1	28	V <sub>CC</sub>
A <sub>6</sub>	2	27	WE
A <sub>7</sub>	3	26	A <sub>4</sub>
A <sub>8</sub>	4	25	A <sub>3</sub>
A <sub>9</sub>	5	24	A <sub>2</sub>
A <sub>10</sub>	6	23	A <sub>1</sub>
A <sub>11</sub>	7	22	OE
A <sub>12</sub>	8	21	A <sub>0</sub>
A <sub>13</sub>	9	20	CE
A <sub>14</sub>	10	19	I/O <sub>7</sub>
I/O <sub>0</sub>	11	18	I/O <sub>6</sub>
I/O <sub>1</sub>	12	17	I/O <sub>5</sub>
I/O <sub>2</sub>	13	16	I/O <sub>4</sub>
GND	14	15	I/O <sub>3</sub>



■ DS8922M-X [NATIONAL SEMICONDUCTOR]  
(RS-422 Dual Differential Line Driver and Receiver Pairs)

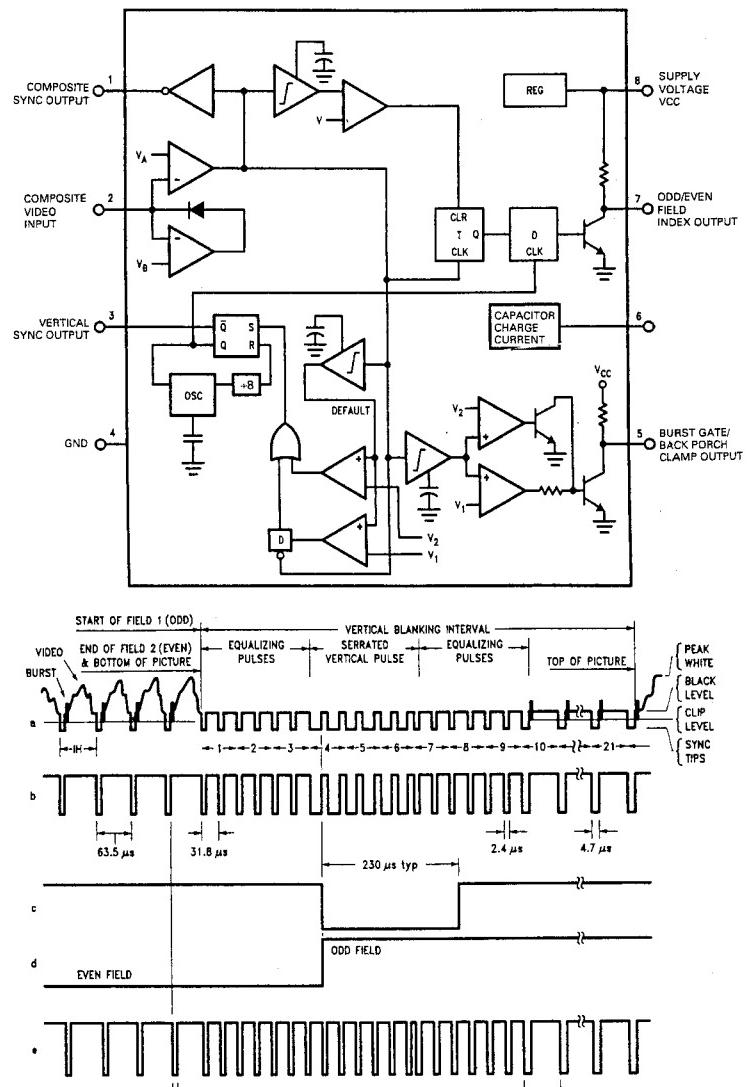
### Connection Diagrams



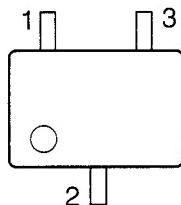
Top View

EN1	EN2	RO1	RO2	DO1	DO2
0	0	ACTIVE	ACTIVE	ACTIVE	ACTIVE
1	0	HI-Z	ACTIVE	HI-Z	ACTIVE
0	1	ACTIVE	HI-Z	ACTIVE	HI-Z
1	1	HI-Z	HI-Z	HI-Z	HI-Z

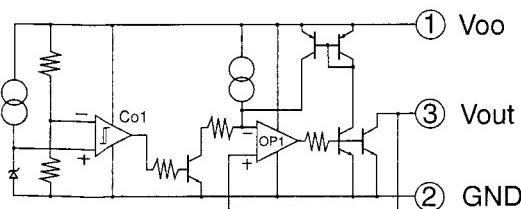
■ LM1881M-X [National Semiconductor]  
(Video Sync Separator)



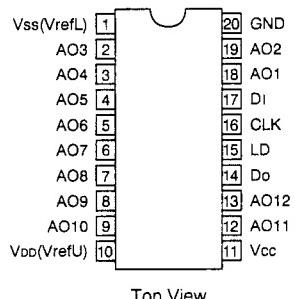
■ IC-PST600M/E/-W [MITSUMI]  
(System Reset IC)



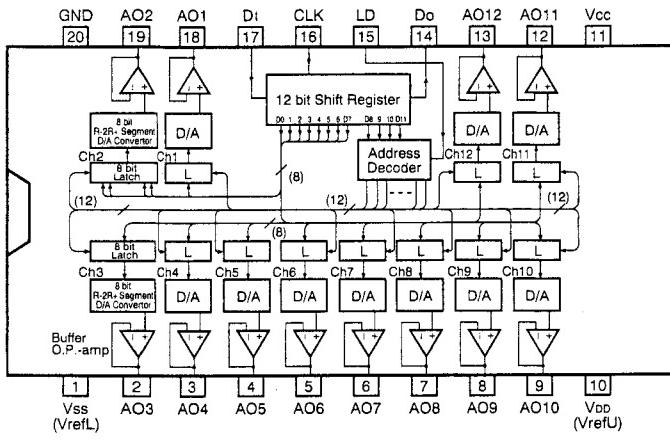
(Top View)



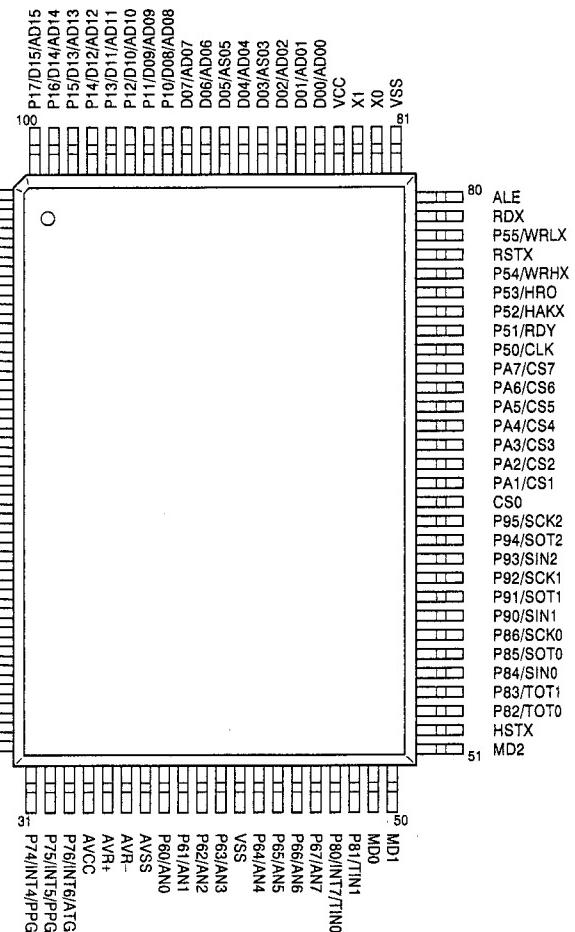
■ M62352GP-W [MITSUBISHI]  
(8 bit 12Channel D/A Converter with Buffer Op.Amp.)



### Top View

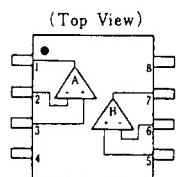


### ■ MB90611APF [FUJITSU] (CPU)

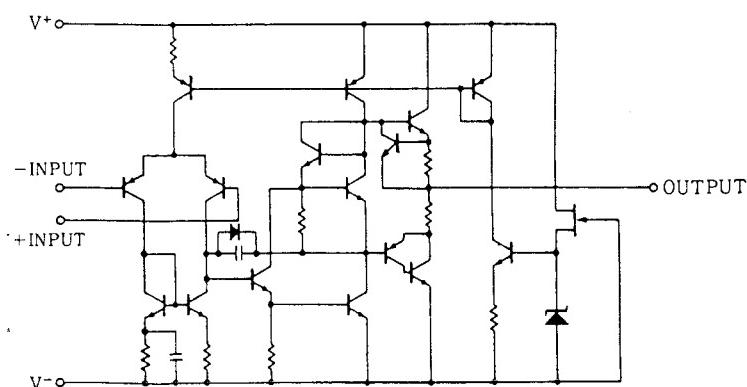


(Top View)

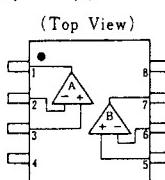
## ■ NJM4556AM-X [JRC] (Dual High Current Op.Amp)



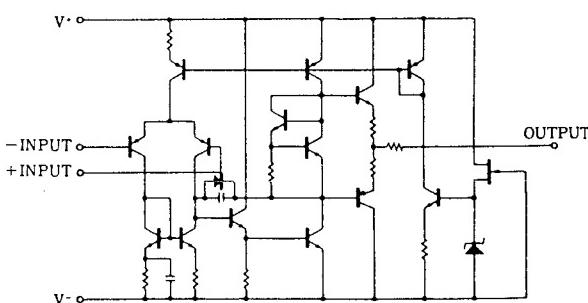
1. A OUTPUT
  2. A-INPUT
  3. A+INPUT
  4. V-
  5. B+INPUT
  6. B-INPUT
  7. B OUTPUT
  8. V+



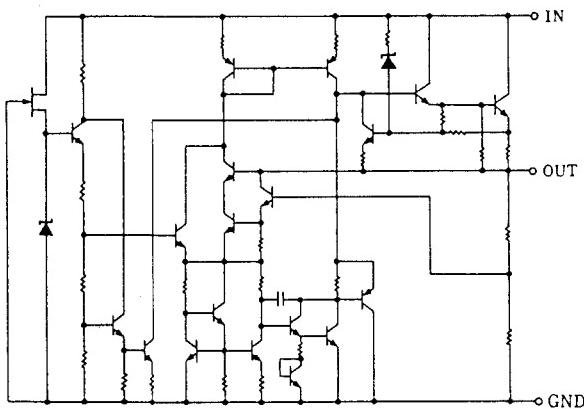
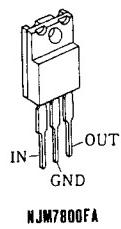
■ NJM4558M-X [JRC]  
(Dual Op.Amp)



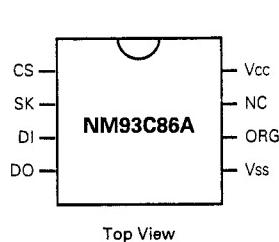
1. A OUTPUT
  2. A-INPUT
  3. A+INPUT
  4. V-
  5. B+INPUT
  6. B-INPUT
  7. B OUTPUT
  8. V+



■ NJM7812FA [JRC]  
(3-Terminal Positive Voltage Regulator (+12V))

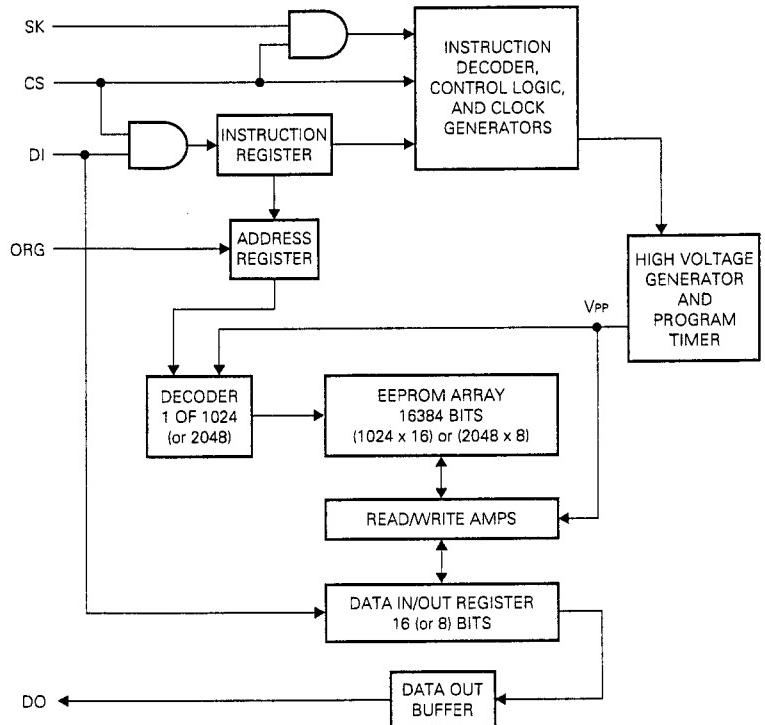


■ NM93C86AEM8-X [NATIONAL SEMICONDUCTOR]  
(16,384-Bit Serial Interface, Standard Voltage CMOS EEPROM)

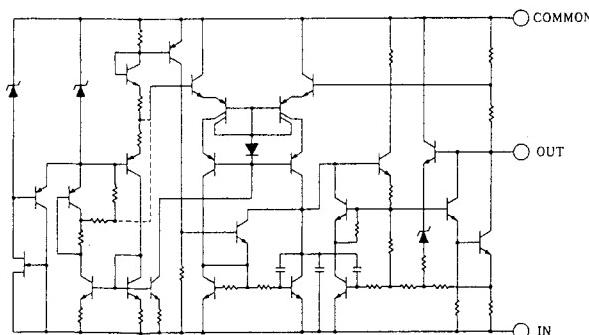
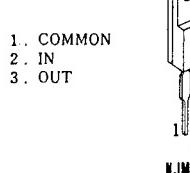


Pin Name	
Pin	Description
CS	Chip Select
SK	Serial Data Clock
DI	Serial Data Input
DO	Serial Data Output
VSS	Ground
ORG	Memory Organization Select (On the NM93CB6A)
NC	No Connect
VCC	Positive Power Supply

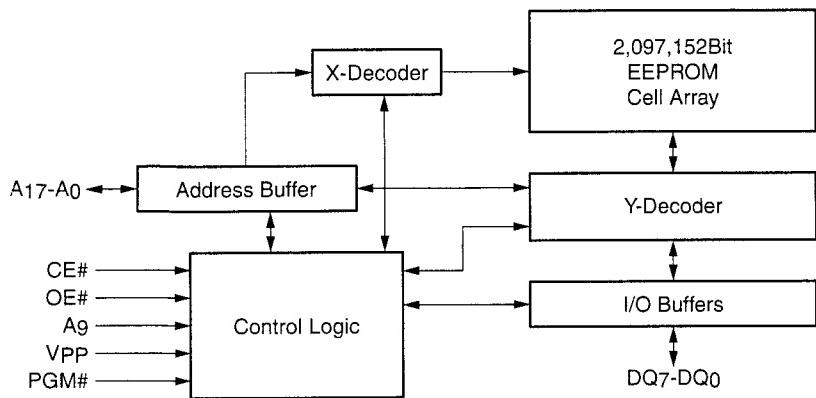
Block Diagram



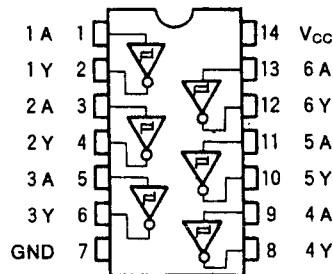
■ NJM7905FA [JRC]  
(3-Terminal Negative Voltage Regulator (-5V))



■ PLSC1359 [SST27SF020-70NH/Silicon Strage Technology]  
(2M Bit Flash Memoly)

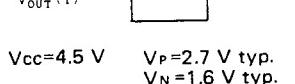


■ TC74HC14AF-X [TOSHIBA]  
(Hex Schmitt-Trigger Inverters)



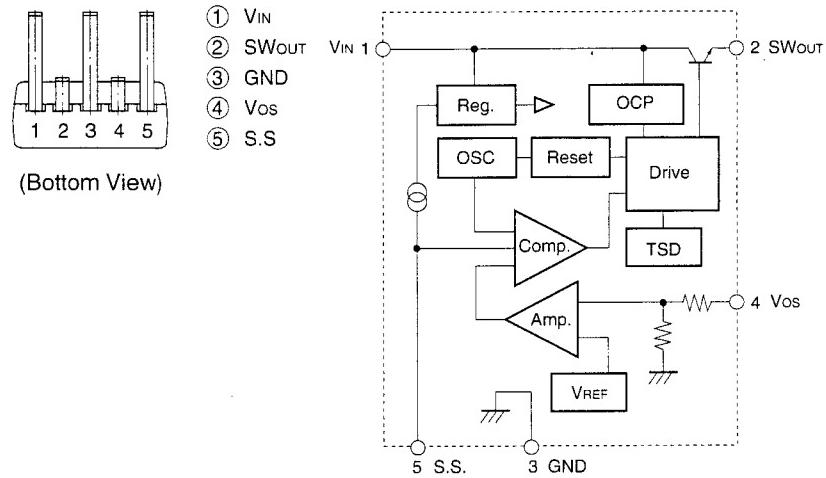
(TOP VIEW)

A	Y
L	H
H	L



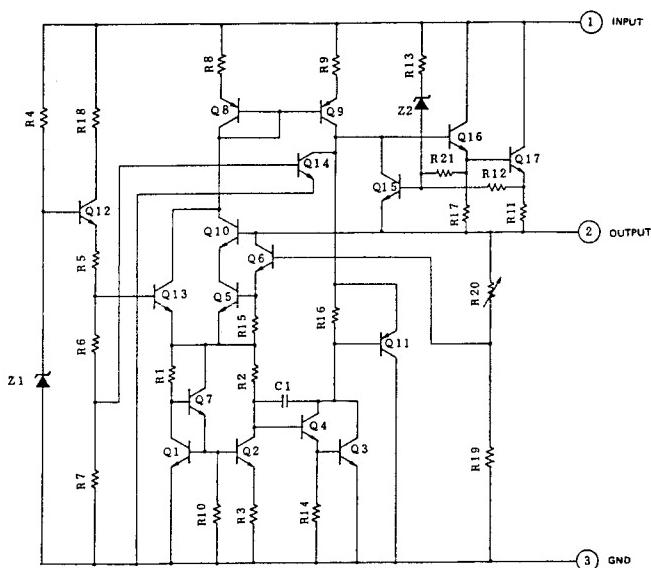
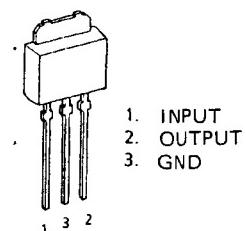
V<sub>CC</sub>=4.5 V    V<sub>P</sub>=2.7 V typ.  
V<sub>N</sub>=1.6 V typ.

■ SI-8120S [SANKEN]  
(Separate Excitation Switching Regulator IC)



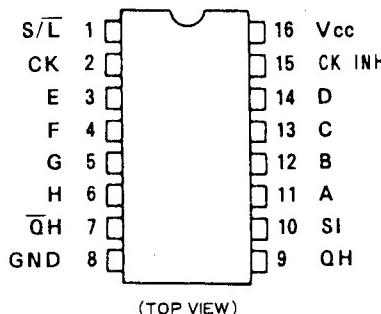
(Bottom View)

■ TA7805S [TOSHIBA]  
(3-Terminal Positive Voltage Regulator (+5V))

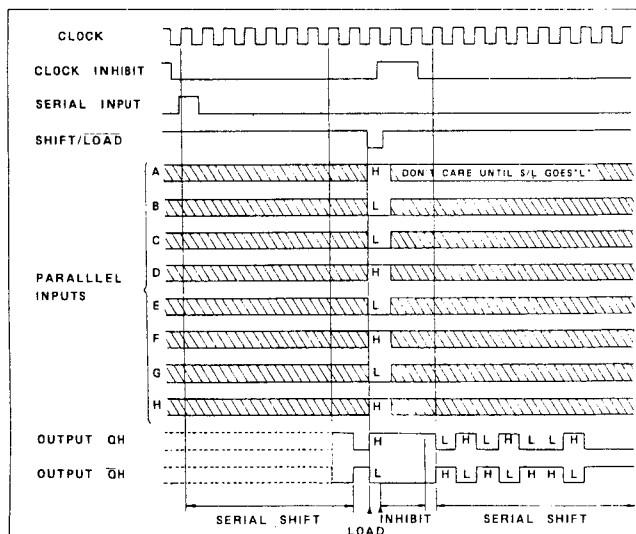


■ TA7809S [TOSHIBA]  
(Refer to TA7805S.)

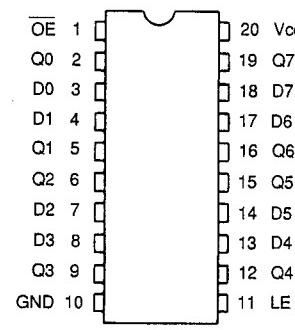
■ TC74HC165AF-X [TOSHIBA]  
(8-Bit Serial or Parallel-In/Serial Out Shift Registers With Complementary Out)



Timing chart



■ TC74HC373AF-X [TOSHIBA]  
(Octal D-Type Latch With NON-Inverted 3-State Output)



TRUE Table

INPUTS			OUTPUTS
OE	LE	D	Z
H	X	X	Z
L	L	X	Q <sub>n</sub>
L	H	L	L
L	H	H	H

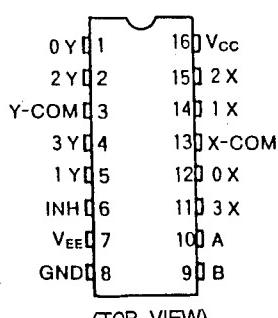
X : Don't Care

Z : Hi impedance

Q<sub>n</sub> : Q output level before the LE become "L".

■ TC74HC4052AFT-X [TOSHIBA]  
(Dual 4-Channel Analog Multiplexer)

TC74HC4052A

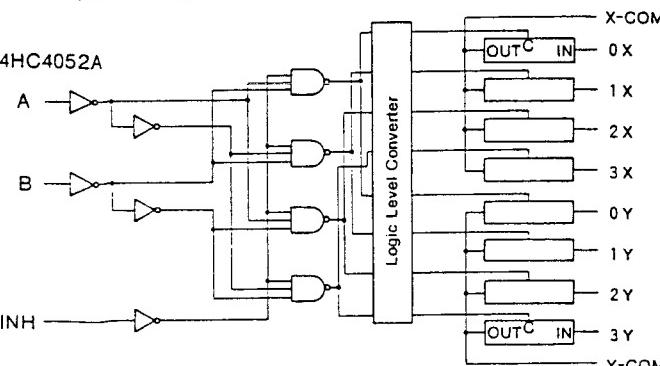


TRUE Table

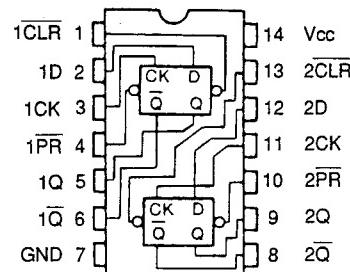
CONTROL INPUTS			"ON" CHANNEL
INHIBIT	B	A	HC4052A
L	L	L	0X, 0Y
L	L	H	1X, 1Y
L	H	L	2X, 2Y
L	H	H	3X, 3Y
H	X	X	NONE

X : DON'T CARE

TC74HC4052A



■ TC74HC74AF-X [TOSHIBA]  
(Dual D-Type Positive-EDGE-Triggered Flip-Flops With Preset AND Clear)

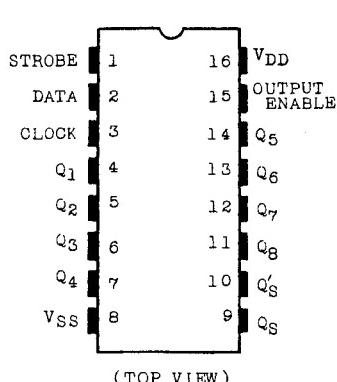


TRUE Table

INPUTS				OUTPUTS		FUNCTION
CLR	PR	D	CK	Q	$\bar{Q}$	
L	H	X	X	L	H	CLEAR
H	L	X	X	H	L	RESET
L	L	X	X	H	H	—
H	H	L	—	L	H	—
H	H	H	—	H	L	—
H	H	X	—	Q <sub>n</sub>	$\bar{Q}_n$	NO CHANGE

X : Don't care

■ TC74HC4094AF-X[TOSHIBA]  
(8 Stage Bus Compatible Shift/Store Register)

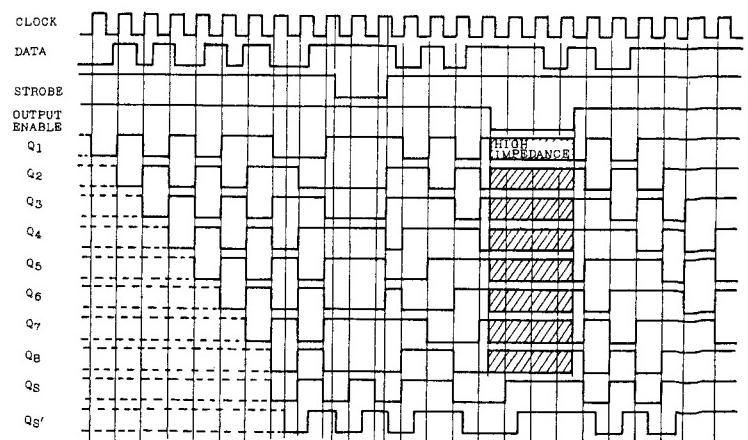
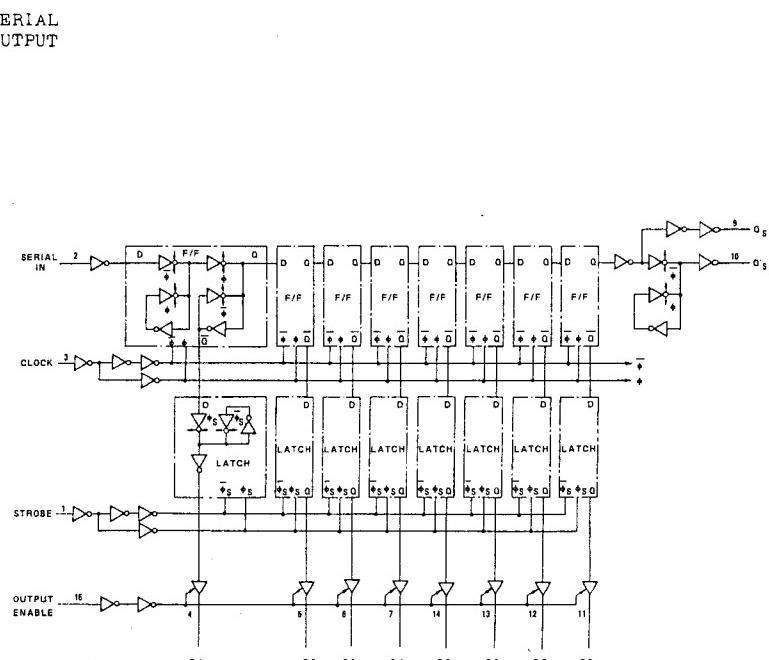
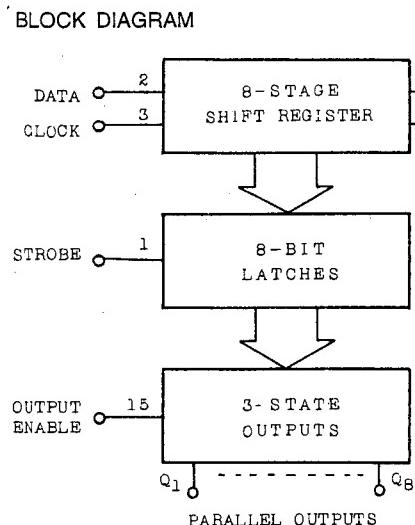


TRUTH TABLE

CL	OE	ST	D	PO		SO	
				Q <sub>1</sub>	Q <sub>n</sub>	Q <sub>S</sub>	Q <sub>S'</sub>
H	H	H	L	L	Q <sub>n-1</sub>	Q <sub>7</sub>	NC
H	H	H	H	H	Q <sub>n-1</sub>	Q <sub>7</sub>	NC
H	L	*	*	NC	NC	Q <sub>7</sub>	NC
L	*	*	*	HZ	HZ	Q <sub>7</sub>	NC
H	*	*	NC	NC	NC	NC	Q <sub>S</sub>
L	*	*	HZ	HZ	NC	NC	Q <sub>S</sub>

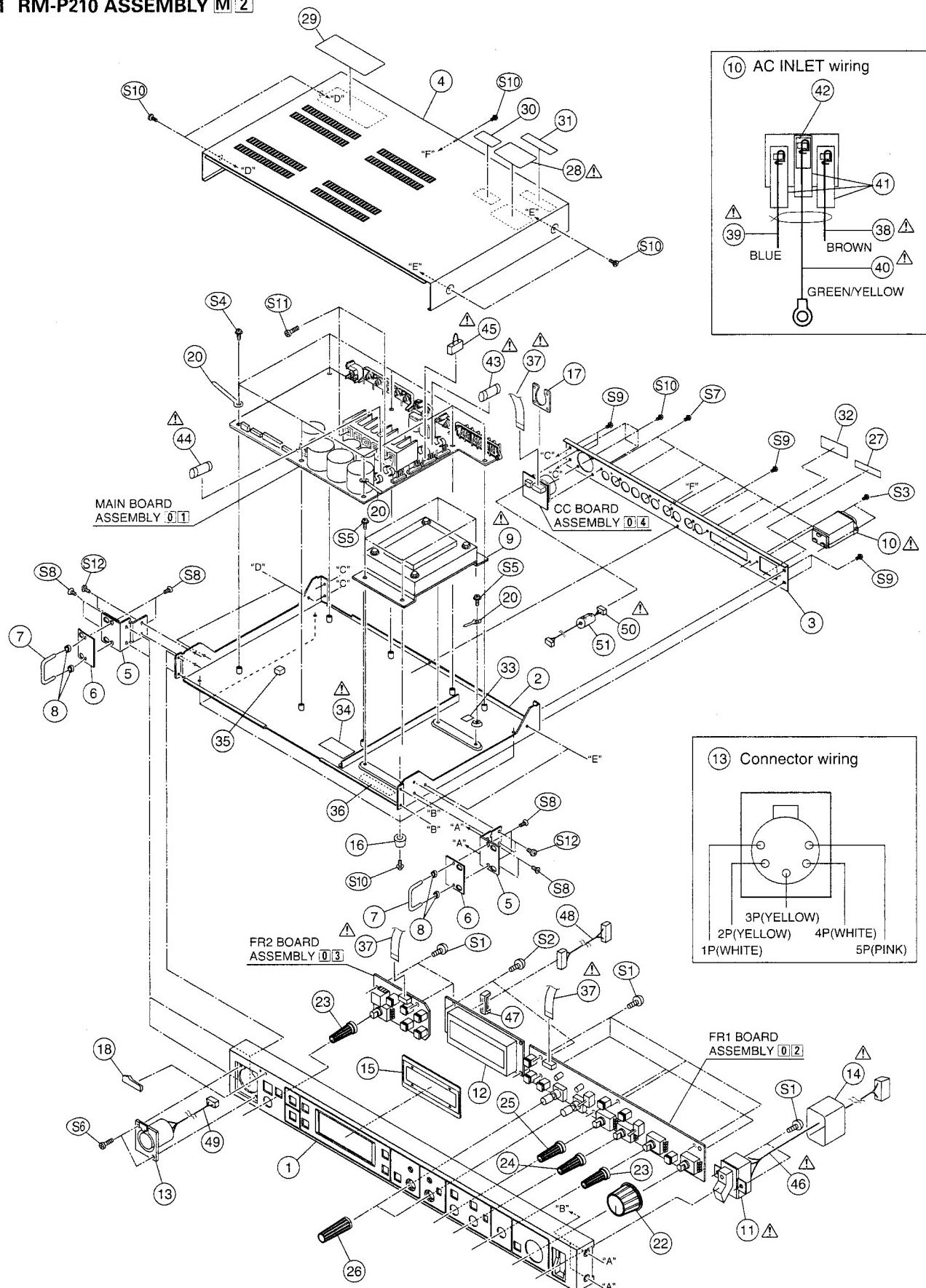
CL = Clock                      \* = Don't care  
OE = Output Enable            NC = No Change  
ST = Strobe                    HZ = High  
D = Data                       Impedance  
PO = Parallel Outputs  
SO = Serial Output

BLOCK DIAGRAM



## SECTION 4 EXPLODED VIEWS AND PARTS LIST

### 4.1 RM-P210 ASSEMBLY M [2]



● RM-P210 ASSEMBLY PARTS LIST M2

M2 MM □□□□

Symbol No.	Part No.	Part Name	Description
1	SC10252-001	FRONT PANEL	
2	SC10253-001	BOTTOM CHASSIS	
3	SC20741-001	REAR PANEL	
4	SC20742-001	TOP COVER	
5	SC30558-001	L.BRACKET	
6	SC41550-003	FRONT PLATE	
7	SC43639-001	HANDLE	
8	SC40617-001	WASHER	
△ 9	QQT0346-001	POWER TRANSF.	U MODEL
△ 9	QQT0347-001	POWER TRANSF.	E MODEL
△ 10	QNC0088-001	AC INLET(NOISE)	
△ 11	QSW0015-004	SEESAW SWITCH	
12	QLD0191-001	LCD MODULE	
13	QNZ0252-001	CONNECTOR	
△ 14	SCV1327-001	SWITCH COVER	
15	SC46802-001	WINDOW	
16	QZF2008-002	FOOT	
17	-	NUT PLATE	See CC BOARD 04 (SYMBOL NP1)
18	PGD30011-3	JVC MARK	
20	SCV0518-008	WIRE CLAMP	
22	SC46207-011	KNOB	IRIS (VR700)
23	SC45572-011	KNOB	MASTER BLACK (VR701), INCOM (VR800)
24	SC45572-031	KNOB	WHITE B (VR702)
25	SC45572-021	KNOB	WHITE R (VR703)
26	SC44668-001	KNOB	GAIN (S706), SHUTTER (S707)
27	LW40137-002A	LABEL(AC INLET)	U MODEL
27	LW40137-003A	LABEL(AC INLET)	E MODEL
△ 28	-	RATING LABEL	
△ 29	SC41058-002	CAUTION LABEL	
△ 30	SS412425-001	UL LABEL	U MODEL
△ 30	SS412174-002	CE/TUV LABEL	E MODEL
△ 31	SC40865-001	WARNING LABEL	E MODEL
32	LW40137-004A	LABEL	U MODEL
33	SC45464-001	LABEL	
△ 34	SC41252-001	CAUTION LABEL	U MODEL
35	SC46836-001	PAD	
36	-	SERIAL No. LABEL	
△ 37	SCV2803-2614B	FFC WIRE	
△ 38	WJV0051-001A	WIRE ASS'Y	BROWN
△ 39	WJV0051-002A	WIRE ASS'Y	BLUE
△ 40	WJV0049-001A	WIRE ASS'Y	GREEN/YELLOW
41	QXT6B0H-025	TUBE	
42	QXTE600-025	TUBE	
△ 43	QMF51U1-2R0-S	FUSE	2A/125V,U MODEL
△ 43	QMF51A2-1R25-S	FUSE	1.25A/250V,E MODEL
△ 44	QMF51U1-5R0-S	FUSE	5A/125V,U MODEL
△ 44	QMF51A2-5R0-S	FUSE	5A/250V,E MODEL
△ 45	WJM0243-001A	WIRE ASS'Y	
△ 46	WJM0242-001A	WIRE ASS'Y	
47	QGA2001C1-15	CONNECTOR	
48	QJJ010-151000	WIRE ASS'Y	
49	WJR0020-001A	WIRE ASS'Y	
△ 50	WJJ0267-001A	WIRE ASS'Y	
51	QQR0594-001	FILTER	E MODEL
S1	QYSPSP3L3006Z	SCREW	M3x6
S2	QYSPSP2L2606Z	SCREW	M2.6x6
S3	QYSSST3008M	SCREW	M3x8
S4	SS49420-B3006	N SCREW	
S5	QYSPSPD4006Z	SCREW	M4x6
S6	QYSPSP2606N	SCREW	M2.6x6
S7	QYSBSF3008M	SCREW	M3x8
S8	QYSSSP3008N	SCREW	M3x8
S9	QYSBST3006M	SCREW	M3x6
S10	QYSDSP3006M	SCREW	M3x6
S11	-	SCREW	See MAIN BOARD 01 (SYMBOL SC1)
S12	QYSDSP3006N	SCREW	M3x6

## SECTION 5

### ELECTRICAL PARTS LIST

#### **SAFETY PRECAUTION:**

Parts identified by the  $\triangle$  symbol are critical for safety. Replace only with specified parts numbers.  
For maximum reliability and performance, all other replacement parts should be identical to those specified.

#### **NOTE:**

- Parts not denoted by parts numbers are not supplied by JVC.
- Abbreviations in this list are as follows:

#### **RESISTORS**

In the "Description" column:

All resistance values are in ohms ( $\Omega$ ).  
k expresses kilo-ohm (1 000 ohms,  $k\Omega$ ).  
M expresses mega-ohm ( $10^6$  ohms,  $M\Omega$ ).

In the "Parts Name" column:

CAR.RESISTOR : Carbon Resistor  
C.M.F.RESISTOR : Constant Metalized Film Resistor  
COMP.RESISTOR : Composition Resistor  
FUSI.RESISTOR : Fusible Resistor  
M.F.RESISTOR : Metal Film Resistor  
M.G.RESISTOR : Metal Graze Resistor  
M.P.RESISTOR : Metal Plate Resistor  
O.M.F.RESISTOR : Oxide Metalized Film Resistor  
TRIM.RESISTOR : Trimerer Resistor  
U.F.RESISTOR : Non-inflammable Resistor  
VAL.RESISTOR : Valiable Resistor  
W.W.RESISTOR : Wire Wound Resistor

#### **CAPACITORS**

In the "Description" column:

All capacitance values are in microfarad ( $\mu F$ ) unless otherwise indicated.  
p expresses picofarad ( $10^{-12}$  farad, pF).

In the "Parts Name" column:

CER.CAPACITOR : Ceramic Capacitor  
E.CAPACITOR : Electrolytic Capacitor  
FILM CAPACITOR : Film Capacitor  
M.F.CAPACITOR : Metalized Film Capacitor  
MICA CAPACITOR : Mica Capacitor  
MPP CAPACITOR : Metalized PolyPropylene Capacitor  
MPPS CAPACITOR : Metalized PolyPhenylene Sulfied film Capacitor  
M.M.CAPACITOR : Metalized Mylar Capacitor  
MYLAR CAPACITOR : Mylar Capacitor  
N.P.CAPACITOR : Non-Polar electrolytic Capacitor  
P.P.CAPACITOR : PolyPropylene Capacitor  
PPS CAPACITOR : PolyPhenylene Sulfied film Capacitor  
P.S.CAPACITOR : PolyStyrene Capacitor  
TAN.CAPACITOR : Tantal Capacitor  
TRIM.CAPACITOR : Trimer Capacitor  
VAL.CAPACITOR : Valiable Capacitor

**Note:** In the "Description" column of the parts list, (U) means the parts for the U version while (E) is for the E version.

Symbol No.	Part No.	Part Name	Description	(U)	for U version
IC1	SCV1585-064 SCV1585-067	I.C.(M)	JVC	(U)	for U version

(E) ← for E version

## 5.1 MAIN BOARD ASSEMBLY PARTS LIST [01]

SCK2655-01-N0A(U MODEL)

SCK2655-01-P0A(E MODEL)

[01] [ ] [ ] [ ] [ ] [ ]

Symbol No.	Part No.	Part Name	Description	Symbol No.	Part No.	Part Name	Description
IC1	NJM7905FA	I.C.(M)	JRC	Q404	2SK663/QR-X	FET	MATSUSHITA
IC2	PLSC1359	I.C.(M)	SST27SF020-70NH	Q405	2SK663/QR-X	FET	MATSUSHITA
SK2	NNV0014-032X	IC SOCKET	FOR IC2	Q406	2SA1532/BC-X	TRANSISTOR	MATSUSHITA
IC3	NJM7812FA	I.C.(M)	JRC	Q407	2SC3930/BC-X	TRANSISTOR	MATSUSHITA
IC4	TA7805S	I.C.(M)	TOSHIBA	Q412	2SA1532/BC-X	TRANSISTOR	MATSUSHITA
IC5	TA7809S	I.C.(M)	TOSHIBA	Q501	2SC3930/BC-X	TRANSISTOR	MATSUSHITA
IC7	SI-8120S	I.C.(M)	SANKEN	Q502	2SA1532/BC-X	TRANSISTOR	MATSUSHITA
IC17	MB90611APF	I.C.(M)	FUJITSU	Q503	2SC3930/BC-X	TRANSISTOR	MATSUSHITA
IC18	TC74HC373AF-X	I.C.(M)	TOSHIBA	Q505	2SC3930/BC-X	TRANSISTOR	MATSUSHITA
IC19	M62352GP-W	I.C.(M)	MITSUBISHI	Q506	2SC3930/BC-X	TRANSISTOR	MATSUSHITA
IC21	IC-PST600M/E-W	I.C.(M)	MITSUMI	Q507	2SA1532/BC-X	TRANSISTOR	MATSUSHITA
IC22	FM93C86AEM8-X	I.C.(M)		Q508	2SC3930/BC-X	TRANSISTOR	MATSUSHITA
IC24	DS8922M-X	I.C.(M)	NATIONAL SEMICO	Q509	2SC3930/BC-X	TRANSISTOR	MATSUSHITA
IC25	CY62256LL70SN-X	I.C.(M)	CYPRESS	Q510	2SK663/QR-X	FET	MATSUSHITA
IC30	NJM4556AM-X	I.C.(M)	JRC	Q511	2SK663/QR-X	FET	MATSUSHITA
IC35	TC74HC4094AF-X	I.C.(M)	TOSHIBA	Q901	2SB949/QP/	TRANSISTOR	MATSUSHITA
IC101	AD817AR-X	I.C.(M)	ANALOG DEVICES	Q902	DTC114EUA-X	TRANSISTOR	ROHM
IC102	AD603AR-X	I.C.(M)	ANALOG DEVICES	Q903	DTC114EUA-X	TRANSISTOR	ROHM
IC103	AD817AR-X	I.C.(M)	ANALOG DEVICES	D1	SVC341/L-X	VARI CAPA DIODE	SANYO
IC104	AD817AR-X	I.C.(M)	ANALOG DEVICES	D2	HZM6C-X	ZENER DIODE	HITACHI
IC201	AD817AR-X	I.C.(M)	ANALOG DEVICES	D3	HZM6C-X	ZENER DIODE	HITACHI
IC301	AD817AR-X	I.C.(M)	ANALOG DEVICES	D4	HZM7.5NB2-X	ZENER DIODE	HITACHI
IC401	AD817AR-X	I.C.(M)	ANALOG DEVICES	D6	HZM6C-X	ZENER DIODE	HITACHI
IC501	LM1881M-X	I.C.(M)	NATIONAL SEMICO	D7	HZM6C-X	ZENER DIODE	HITACHI
IC502	AD817AR-X	I.C.(M)	ANALOG DEVICES	D8	HZM6C-X	ZENER DIODE	HITACHI
IC503	TC74HC4052AFT-X	I.C.(M)	TOSHIBA	D9	HZM6C-X	ZENER DIODE	HITACHI
IC504	AD817AR-X	I.C.(M)	ANALOG DEVICES	D10	1SS187-X	DIODE	TOSHIBA
IC505	AD817AR-X	I.C.(M)	ANALOG DEVICES	D18	HZM6C-X	ZENER DIODE	HITACHI
IC506	AD817AR-X	I.C.(M)	ANALOG DEVICES	D19	HZM6C-X	ZENER DIODE	HITACHI
IC507	AD817AR-X	I.C.(M)	ANALOG DEVICES	D20	HZM18NB2-X	ZENER DIODE	HITACHI
IC601	NJM4556AM-X	I.C.(M)	JRC	D21	HZM18NB2-X	ZENER DIODE	HITACHI
IC602	NJM4556AM-X	I.C.(M)	JRC	D22	HZM18NB2-X	ZENER DIODE	HITACHI
IC604	NJM4556AM-X	I.C.(M)	JRC	D23	HZM18NB2-X	ZENER DIODE	HITACHI
IC605	NJM4558M-X	I.C.(M)	JRC	D24	HZM18NB2-X	ZENER DIODE	HITACHI
Q1	2SC3930/BC-X	TRANSISTOR	MATSUSHITA	D25	HZM18NB2-X	ZENER DIODE	HITACHI
Q14	2SA1532/BC-X	TRANSISTOR	MATSUSHITA	D26	HZM18NB2-X	ZENER DIODE	HITACHI
Q17	2SA1532/BC-X	TRANSISTOR	MATSUSHITA	D27	HZM18NB2-X	ZENER DIODE	HITACHI
Q18	2SA684/R	TRANSISTOR	MATSUSHITA	D28	HZM18NB2-X	ZENER DIODE	HITACHI
Q19	2SA684/R	TRANSISTOR	MATSUSHITA	D29	HZM18NB2-X	ZENER DIODE	HITACHI
Q59	DTD123YK-X	TRANSISTOR	ROHM	D30	HZM18NB2-X	ZENER DIODE	HITACHI
Q61	DTC124EUA-X	TRANSISTOR	ROHM	D31	HZM18NB2-X	ZENER DIODE	HITACHI
Q101	2SC3930/BC-X	TRANSISTOR	MATSUSHITA	D32	HZM18NB2-X	ZENER DIODE	HITACHI
Q102	2SK663/QR-X	FET	MATSUSHITA	D33	HZM18NB2-X	ZENER DIODE	HITACHI
Q103	2SK663/QR-X	FET	MATSUSHITA	D34	HZM18NB2-X	ZENER DIODE	HITACHI
Q104	2SK663/QR-X	FET	MATSUSHITA	D35	HZM18NB2-X	ZENER DIODE	HITACHI
Q105	2SK663/QR-X	FET	MATSUSHITA	D44	RBV-404	SI.DIODE	GI
Q106	2SA1532/BC-X	TRANSISTOR	MATSUSHITA	D47	RK46	DIODE	SANKEN
Q107	2SC3930/BC-X	TRANSISTOR	MATSUSHITA	D50	FMM-22S	DIODE	SANKEN
Q112	2SA1532/BC-X	TRANSISTOR	MATSUSHITA	D101	SVC341/L-X	VARI CAPA DIODE	SANYO
Q201	2SC3930/BC-X	TRANSISTOR	MATSUSHITA	D201	SVC341/L-X	VARI CAPA DIODE	SANYO
Q202	2SK663/QR-X	FET	MATSUSHITA	D301	SVC341/L-X	VARI CAPA DIODE	SANYO
Q203	2SK663/QR-X	FET	MATSUSHITA	D501	SVC341/L-X	VARI CAPA DIODE	SANYO
Q204	2SK663/QR-X	FET	MATSUSHITA	D502	HZM18NB2-X	ZENER DIODE	HITACHI
Q205	2SK663/QR-X	FET	MATSUSHITA	D503	HZM18NB2-X	ZENER DIODE	HITACHI
Q206	2SA1532/BC-X	TRANSISTOR	MATSUSHITA	D504	HZM3.0NB1-X	ZENER DIODE	HITACHI
Q207	2SC3930/BC-X	TRANSISTOR	MATSUSHITA	D505	HZM3.0NB1-X	ZENER DIODE	HITACHI
Q212	2SA1532/BC-X	TRANSISTOR	MATSUSHITA	D506	HZM3.0NB1-X	ZENER DIODE	HITACHI
Q301	2SC3930/BC-X	TRANSISTOR	MATSUSHITA	D507	HZM3.0NB1-X	ZENER DIODE	HITACHI
Q302	2SK663/QR-X	FET	MATSUSHITA	D508	HZM3.0NB1-X	ZENER DIODE	HITACHI
Q303	2SK663/QR-X	FET	MATSUSHITA	D509	HZM3.0NB1-X	ZENER DIODE	HITACHI
Q304	2SK663/QR-X	FET	MATSUSHITA	D510	HZM3.0NB1-X	ZENER DIODE	HITACHI
Q305	2SK663/QR-X	FET	MATSUSHITA	D511	HZM3.0NB1-X	ZENER DIODE	HITACHI
Q306	2SA1532/BC-X	TRANSISTOR	MATSUSHITA	D512	HZM3.0NB1-X	ZENER DIODE	HITACHI
Q307	2SC3930/BC-X	TRANSISTOR	MATSUSHITA	D513	HZM3.0NB1-X	ZENER DIODE	HITACHI
Q312	2SA1532/BC-X	TRANSISTOR	MATSUSHITA	D514	HZM3.0NB1-X	ZENER DIODE	HITACHI
Q401	2SC3930/BC-X	TRANSISTOR	MATSUSHITA	D515	HZM3.0NB1-X	ZENER DIODE	HITACHI
Q402	2SK663/QR-X	FET	MATSUSHITA	D516	HZM3.0NB1-X	ZENER DIODE	HITACHI
Q403	2SK663/QR-X	FET	MATSUSHITA	D517	HZM3.0NB1-X	ZENER DIODE	HITACHI
				D518	HZM3.0NB1-X	ZENER DIODE	HITACHI
				D519	HZM3.0NB1-X	ZENER DIODE	HITACHI
				D520	HZM3.0NB1-X	ZENER DIODE	HITACHI

[MAIN]

Symbol No.	Part No.	Part Name	Description
D521	HZM3.0NB1-X	ZENER DIODE	HITACHI
D522	HZM3.0NB1-X	ZENER DIODE	HITACHI
D523	HZM3.0NB1-X	ZENER DIODE	HITACHI
D604	MA165	DIODE	MATSUSHITA
D605	MA165	DIODE	MATSUSHITA
D606	MA165	DIODE	MATSUSHITA
D607	MA165	DIODE	MATSUSHITA
D608	HZM18NB2-X	ZENER DIODE	HITACHI
D609	HZM18NB2-X	ZENER DIODE	HITACHI
D610	HZM18NB2-X	ZENER DIODE	HITACHI
D611	HZM18NB2-X	ZENER DIODE	HITACHI
D612	HZM36NB-W	ZENER DIODE	HITACHI
D613	HZM36NB-W	ZENER DIODE	HITACHI
D614	HZM36NB-W	ZENER DIODE	HITACHI
D615	HZM36NB-W	ZENER DIODE	HITACHI
D616	HZM36NB-W	ZENER DIODE	HITACHI
D617	HZM36NB-W	ZENER DIODE	HITACHI
D618	HZM18NB2-X	ZENER DIODE	HITACHI
D619	HZM18NB2-X	ZENER DIODE	HITACHI
D620	HZM18NB2-X	ZENER DIODE	HITACHI
D621	HZM18NB2-X	ZENER DIODE	HITACHI
D622	HZM18NB2-X	ZENER DIODE	HITACHI
D623	HZM18NB2-X	ZENER DIODE	HITACHI
D624	HZM18NB2-X	ZENER DIODE	HITACHI
D625	HZM18NB2-X	ZENER DIODE	HITACHI
D626	MA143A-X	DIODE	MATSUSHITA
D627	MA143A-X	DIODE	MATSUSHITA
D628	MA143A-X	DIODE	MATSUSHITA
D629	MA143A-X	DIODE	MATSUSHITA
PC1	PC817P-W	I.C(PH COUPLER)	SHARP
PC2	PC817P-W	I.C(PH COUPLER)	SHARP
R1	NRSA63J-333X	M.G.RESISTOR	33k 1/16W
R2	NRSA63J-105X	M.G.RESISTOR	1M 1/16W
R3	NRSA63J-224X	M.G.RESISTOR	220k 1/16W
R4	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R5	NRSA63J-470X	M.G.RESISTOR	47 1/16W
R6	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R7	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R8	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R9	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R10	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R11	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R12	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R13	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R14	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
R15	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R16	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R17	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R18	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R19	NRSA63J-581X	M.G.RESISTOR	680 1/16W
R20	NRSA63J-470X	M.G.RESISTOR	47 1/16W
R21	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R22	NRSA63J-470X	M.G.RESISTOR	47 1/16W
R23	NRSA63J-470X	M.G.RESISTOR	47 1/16W
R24	NRSA63J-470X	M.G.RESISTOR	47 1/16W
R25	NRSA63J-470X	M.G.RESISTOR	47 1/16W
R26	NRSA63J-470X	M.G.RESISTOR	47 1/16W
R27	NRSA63J-470X	M.G.RESISTOR	47 1/16W
R28	NRSA63J-470X	M.G.RESISTOR	47 1/16W
R29	NRSA63J-470X	M.G.RESISTOR	47 1/16W
R30	NRSA63J-470X	M.G.RESISTOR	47 1/16W
R31	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R32	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R33	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R34	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R35	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R36	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R37	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R38	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R39	NRSA63J-103X	M.G.RESISTOR	10k 1/16W

Symbol No.	Part No.	Part Name	Description
R40	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R49	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R50	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R101	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R102	NRSA63J-333X	M.G.RESISTOR	33k 1/16W
R103	NRSA63J-150X	M.G.RESISTOR	15 1/16W
R104	NRSA63J-681X	M.G.RESISTOR	680 1/16W
R105	NRSA63J-681X	M.G.RESISTOR	680 1/16W
R106	NRSA63J-121X	M.G.RESISTOR	120 1/16W
R107	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R108	NRSA63J-750X	M.G.RESISTOR	75 1/16W
R109	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R110	NRSA63J-390X	M.G.RESISTOR	39 1/16W
R111	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R112	NRSA63J-120X	M.G.RESISTOR	12 1/16W
R113	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R114	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R115	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R116	NRSA63J-272X	M.G.RESISTOR	2.7k 1/16W
R117	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R118	NRSA63J-151X	M.G.RESISTOR	150 1/16W
R119	NRSA63J-182X	M.G.RESISTOR	1.8k 1/16W
R123	NRSA63J-561X	M.G.RESISTOR	560 1/16W
R124	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R125	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R126	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R127	NRSA63J-153X	M.G.RESISTOR	15k 1/16W
R128	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R129	NRSA63J-331X	M.G.RESISTOR	330 1/16W
R130	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R131	NRSA63J-224X	M.G.RESISTOR	220k 1/16W
R132	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
R133	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R134	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R135	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R136	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R137	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R138	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R142	NRSA63J-561X	M.G.RESISTOR	560 1/16W
R177	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
R178	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R180	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R181	NRSA63J-822X	M.G.RESISTOR	8.2k 1/16W
R182	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R186	NRSA63J-681X	M.G.RESISTOR	680 1/16W
R187	NRSA63J-220X	M.G.RESISTOR	22 1/16W
R188	NRSA63J-220X	M.G.RESISTOR	22 1/16W
R194	NRSA63J-561X	M.G.RESISTOR	560 1/16W
R195	NRSA63J-473X	M.G.RESISTOR	47k 1/16W
R201	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R202	NRSA63J-333X	M.G.RESISTOR	33k 1/16W
R203	NRSA63J-150X	M.G.RESISTOR	15 1/16W
R204	NRSA63J-681X	M.G.RESISTOR	680 1/16W
R205	NRSA63J-681X	M.G.RESISTOR	680 1/16W
R206	NRSA63J-121X	M.G.RESISTOR	120 1/16W
R207	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R208	NRSA63J-750X	M.G.RESISTOR	75 1/16W
R209	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R210	NRSA63J-390X	M.G.RESISTOR	39 1/16W
R211	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R212	NRSA63J-120X	M.G.RESISTOR	12 1/16W
R213	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R214	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R215	NRSA63J-272X	M.G.RESISTOR	2.7k 1/16W
R216	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R217	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R218	NRSA63J-151X	M.G.RESISTOR	150 1/16W
R219	NRSA63J-182X	M.G.RESISTOR	1.8k 1/16W
R224	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R226	NRSA63J-561X	M.G.RESISTOR	560 1/16W
R227	NRSA63J-122X	M.G.RESISTOR	1.2k 1/16W
R228	NRSA63J-104X	M.G.RESISTOR	100k 1/16W

Symbol No.	Part No.	Part Name	Description	Symbol No.	Part No.	Part Name	Description
R229	NRSA63J-153X	M.G.RESISTOR	15k 1/16W	R518	NRSA63J-183X	M.G.RESISTOR	18k 1/16W
R230	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W	R519	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R231	NRSA63J-102X	M.G.RESISTOR	1k 1/16W	R520	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R232	NRSA63J-750X	M.G.RESISTOR	75 1/16W	R521	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R301	NRSA63J-273X	M.G.RESISTOR	27k 1/16W	R522	NRSA63J-272X	M.G.RESISTOR	2.7k 1/16W
R302	NRSA63J-333X	M.G.RESISTOR	33k 1/16W	R523	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R303	NRSA63J-150X	M.G.RESISTOR	15 1/16W				
R304	NRSA63J-681X	M.G.RESISTOR	680 1/16W	R526	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R305	NRSA63J-681X	M.G.RESISTOR	680 1/16W	R527	NRSA63J-122X	M.G.RESISTOR	1.2k 1/16W
				R528	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R306	NRSA63J-121X	M.G.RESISTOR	120 1/16W	R529	NRSA63J-153X	M.G.RESISTOR	15k 1/16W
R307	NRSA63J-104X	M.G.RESISTOR	100k 1/16W	R530	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R308	NRSA63J-750X	M.G.RESISTOR	75 1/16W	R531	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R309	NRSA63J-104X	M.G.RESISTOR	100k 1/16W	R532	NRSA63J-562X	M.G.RESISTOR	5.6k 1/16W
R310	NRSA63J-390X	M.G.RESISTOR	39 1/16W	R533	NRSA63J-562X	M.G.RESISTOR	5.6k 1/16W
R311	NRSA63J-104X	M.G.RESISTOR	100k 1/16W	R534	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R312	NRSA63J-120X	M.G.RESISTOR	12 1/16W	R535	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R313	NRSA63J-104X	M.G.RESISTOR	100k 1/16W				
R314	NRSA63J-221X	M.G.RESISTOR	220 1/16W	R536	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R315	NRSA63J-272X	M.G.RESISTOR	2.7k 1/16W	R537	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W
				R538	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R316	NRSA63J-273X	M.G.RESISTOR	27k 1/16W	R539	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R317	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W	R540	NRSA63J-750X	M.G.RESISTOR	75 1/16W
R318	NRSA63J-151X	M.G.RESISTOR	150 1/16W	R541	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R319	NRSA63J-182X	M.G.RESISTOR	1.8k 1/16W	R542	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R324	NRSA63J-471X	M.G.RESISTOR	470 1/16W	R543	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W
R328	NRSA63J-561X	M.G.RESISTOR	560 1/16W	R544	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R329	NRSA63J-122X	M.G.RESISTOR	1.2k 1/16W	R545	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R330	NRSA63J-104X	M.G.RESISTOR	100k 1/16W				
R331	NRSA63J-153X	M.G.RESISTOR	15k 1/16W	R546	NRSA63J-750X	M.G.RESISTOR	75 1/16W
R332	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W	R547	NRSA63J-750X	M.G.RESISTOR	75 1/16W
				R548	NRSA63J-750X	M.G.RESISTOR	75 1/16W
R333	NRSA63J-102X	M.G.RESISTOR	1k 1/16W	R549	NRSA63J-750X	M.G.RESISTOR	75 1/16W
R401	NRSA63J-273X	M.G.RESISTOR	27k 1/16W	R550	NRSA63J-750X	M.G.RESISTOR	75 1/16W
R402	NRSA63J-333X	M.G.RESISTOR	33k 1/16W	R551	NRSA63J-750X	M.G.RESISTOR	75 1/16W
R403	NRSA63J-150X	M.G.RESISTOR	15 1/16W	R552	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R404	NRSA63J-681X	M.G.RESISTOR	680 1/16W	R553	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R405	NRSA63J-681X	M.G.RESISTOR	680 1/16W	R554	NRSA63J-750X	M.G.RESISTOR	75 1/16W
R406	NRSA63J-121X	M.G.RESISTOR	120 1/16W	R556	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R407	NRSA63J-104X	M.G.RESISTOR	100k 1/16W				
R408	NRSA63J-750X	M.G.RESISTOR	75 1/16W	R557	NRSA63J-681X	M.G.RESISTOR	680 1/16W
R409	NRSA63J-104X	M.G.RESISTOR	100k 1/16W	R558	NRSA63J-681X	M.G.RESISTOR	680 1/16W
				R561	NRSA63J-272X	M.G.RESISTOR	2.7k 1/16W
R410	NRSA63J-390X	M.G.RESISTOR	39 1/16W	R562	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R411	NRSA63J-104X	M.G.RESISTOR	100k 1/16W	R563	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R412	NRSA63J-120X	M.G.RESISTOR	12 1/16W	R564	NRSA63J-750X	M.G.RESISTOR	75 1/16W
R413	NRSA63J-182X	M.G.RESISTOR	1.8k 1/16W	R601	NRSA63J-392X	M.G.RESISTOR	3.9k 1/16W
R414	NRSA63J-221X	M.G.RESISTOR	220 1/16W	R602	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R415	NRSA63J-272X	M.G.RESISTOR	2.7k 1/16W	R603	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R416	NRSA63J-273X	M.G.RESISTOR	27k 1/16W	R604	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R417	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W				
R418	NRSA63J-151X	M.G.RESISTOR	150 1/16W	R605	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R424	NRSA63J-471X	M.G.RESISTOR	470 1/16W	R606	NRSA63J-392X	M.G.RESISTOR	3.9k 1/16W
				R607	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R425	NRSA63J-561X	M.G.RESISTOR	560 1/16W	R608	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R426	NRSA63J-122X	M.G.RESISTOR	1.2k 1/16W	R609	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R427	NRSA63J-104X	M.G.RESISTOR	100k 1/16W	R610	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R428	NRSA63J-153X	M.G.RESISTOR	15k 1/16W	R611	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
R429	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W	R612	NRSA63J-470X	M.G.RESISTOR	47 1/16W
R430	NRSA63J-102X	M.G.RESISTOR	1k 1/16W	R613	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
R431	NRSA63J-750X	M.G.RESISTOR	75 1/16W	R614	NRSA63J-470X	M.G.RESISTOR	47 1/16W
R501	NRSA63J-822X	M.G.RESISTOR	8.2k 1/16W				
R502	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	R616	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
R503	NRSA63J-221X	M.G.RESISTOR	220 1/16W	R617	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
				R618	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R504	NRSA63J-471X	M.G.RESISTOR	470 1/16W	R619	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R505	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W	R620	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R506	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W	R621	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R507	NRSA63J-562X	M.G.RESISTOR	5.6k 1/16W	R622	NRSA63J-822X	M.G.RESISTOR	8.2k 1/16W
R508	NRSA63J-562X	M.G.RESISTOR	5.6k 1/16W	R623	NRSA63J-822X	M.G.RESISTOR	8.2k 1/16W
R509	NRSA63J-684X	M.G.RESISTOR	680k 1/16W	R624	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R510	NRSA63J-331X	M.G.RESISTOR	330 1/16W	R625	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R511	NRSA63J-272X	M.G.RESISTOR	2.7k 1/16W				
R512	NRSA63J-221X	M.G.RESISTOR	220 1/16W	R626	NRSA63J-563X	M.G.RESISTOR	56k 1/16W
R513	NRSA63J-183X	M.G.RESISTOR	18k 1/16W	R627	NRSA63J-153X	M.G.RESISTOR	15k 1/16W
				R628	NRSA63J-561X	M.G.RESISTOR	560 1/16W
R514	NRSA63J-104X	M.G.RESISTOR	100k 1/16W	R629	NRSA63J-563X	M.G.RESISTOR	56k 1/16W
R515	NRSA63J-122X	M.G.RESISTOR	1.2k 1/16W	R630	NRSA63J-822X	M.G.RESISTOR	8.2k 1/16W
R516	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W	R631	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R517	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W	R632	NRSA63J-122X	M.G.RESISTOR	1.2k 1/16W

[MAIN]

Symbol No.	Part No.	Part Name	Description	Symbol No.	Part No.	Part Name	Description
R633	NRSA63J-393X	M.G.RESISTOR	39k 1/16W	C81	NEH91HM-105X	E.CAPACITOR	1 50V
R635	NRSA63J-101X	M.G.RESISTOR	100 1/16W	C82	QEZO290-828	E.CAPACITOR	8200
R637	NRSA63J-223X	M.G.RESISTOR	22k 1/16W	C83	QETM1EM-228	E.CAPACITOR	2200 25V
R638	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W	C84	QEHB1EM-477	E.CAPACITOR	470 25V
R639	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W	C85	QEZO547-688	E.CAPACITOR	6800
R640	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W	C86	QEZO548-828	E.CAPACITOR	8200
R641	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W	C87	QEHB1EM-477	E.CAPACITOR	470 25V
R642	NRSA63J-392X	M.G.RESISTOR	3.9k 1/16W	C88	QEHB1EM-477	E.CAPACITOR	470 25V
R643	NRSA63J-392X	M.G.RESISTOR	3.9k 1/16W	C93	QEZO171-22A	E.CAPACITOR	
R644	NRSA63J-470X	M.G.RESISTOR	47 1/16W	C101	NEH90JM-476X	E.CAPACITOR	47 6.3V
R645	NRSA63J-470X	M.G.RESISTOR	47 1/16W	C102	NEH91CM-476X	E.CAPACITOR	47 16V
R646	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W	C103	NDC31HJ-121X	CER.CAPACITOR	120p 50V
R648	NRSA63J-392X	M.G.RESISTOR	3.9k 1/16W	C104	NDC31HJ-560X	CER.CAPACITOR	56p 50V
R650	NRSA63J-104X	M.G.RESISTOR	100k 1/16W	C105	NCB31CK-473X	CER.CAPACITOR	0.047 16V
R651	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W	C107	NDC31HJ-470X	CER.CAPACITOR	47p 50V
R652	NRSA63J-104X	M.G.RESISTOR	100k 1/16W	C114	NDC31HJ-151X	CER.CAPACITOR	150p 50V
R653	NRSA63J-822X	M.G.RESISTOR	8.2k 1/16W	C115	NEH90JM-476X	E.CAPACITOR	47 6.3V
R654	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	C116	NCB31CK-473X	CER.CAPACITOR	0.047 16V
R655	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	C117	NCB31CK-473X	CER.CAPACITOR	0.047 16V
R656	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	C118	NCB31CK-473X	CER.CAPACITOR	0.047 16V
R657	NRSA63J-473X	M.G.RESISTOR	47k 1/16W	C119	NCB31CK-473X	CER.CAPACITOR	0.047 16V
R659	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	C120	NCB31CK-473X	CER.CAPACITOR	0.047 16V
R660	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	C121	NCB31CK-473X	CER.CAPACITOR	0.047 16V
R902	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W	C149	NEH90JM-476X	E.CAPACITOR	47 6.3V
R903	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W	C188	NEH90JM-476X	E.CAPACITOR	47 6.3V
R904	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W	C196	NCB31CK-473X	CER.CAPACITOR	0.047 16V
R905	NRSA63J-562X	M.G.RESISTOR	5.6k 1/16W	C198	NEH90JM-476X	E.CAPACITOR	47 6.3V
VR15	NVP1415-103X	TRIM.RESISTOR	10k 2W S.TONE	C199	NCB31CK-473X	CER.CAPACITOR	0.047 16V
VR16	NVP1415-103X	TRIM.RESISTOR	10k RTS S.TONE	C201	NEH90JM-476X	E.CAPACITOR	47 6.3V
VR101	NVP1415-203X	TRIM.RESISTOR	20k VBS FREQ	C202	NEH91CM-476X	E.CAPACITOR	47 16V
VR102	NVP1415-103X	TRIM.RESISTOR	10k VBS LEVEL	C203	NDC31HJ-121X	CER.CAPACITOR	120p 50V
VR201	NVP1415-501X	TRIM.RESISTOR	500 R LEVEL	C204	NDC31HJ-560X	CER.CAPACITOR	56p 50V
VR202	NVP1415-203X	TRIM.RESISTOR	20k R FREQ	C205	NCB31CK-473X	CER.CAPACITOR	0.047 16V
VR301	NVP1415-501X	TRIM.RESISTOR	500 G LEVEL	C207	NDC31HJ-220X	CER.CAPACITOR	22p 50V
VR302	NVP1415-203X	TRIM.RESISTOR	20k G FREQ	C214	NDC31HJ-680X	CER.CAPACITOR	68p 50V
VR401	NVP1415-501X	TRIM.RESISTOR	500 B LEVEL	C215	NEH90JM-476X	E.CAPACITOR	47 6.3V
VR402	NVP1415-203X	TRIM.RESISTOR	20k B FREQ	C217	NCB31CK-473X	CER.CAPACITOR	0.047 16V
C1	QEZO547-688	E.CAPACITOR	6800	C218	NCB31CK-473X	CER.CAPACITOR	0.047 16V
C2	QEZO547-688	E.CAPACITOR	6800	C220	NEN20JM-476X	N.P.CAPACITOR	47 6.3V
C3	NCB31EK-103X	CER.CAPACITOR	0.01 25V	C221	NEH90JM-476X	E.CAPACITOR	47 6.3V
C4	QEHB1EM-477	E.CAPACITOR	470 25V	C222	NEH90JM-476X	E.CAPACITOR	47 6.3V
C5	QEZO548-828	E.CAPACITOR	8200	C223	NCB31CK-473X	CER.CAPACITOR	0.047 16V
C8	NCB31CK-104X	CER.CAPACITOR	0.1 16V	C301	NEH90JM-476X	E.CAPACITOR	47 6.3V
C9	NCB31CK-473X	CER.CAPACITOR	0.047 16V	C302	NEH91CM-476X	E.CAPACITOR	47 16V
C10	NCB31CK-473X	CER.CAPACITOR	0.047 16V	C303	NDC31HJ-121X	CER.CAPACITOR	120p 50V
C11	NCB31CK-473X	CER.CAPACITOR	0.047 16V	C304	NDC31HJ-560X	CER.CAPACITOR	56p 50V
C12	NCB31CK-473X	CER.CAPACITOR	0.047 16V	C305	NCB31CK-473X	CER.CAPACITOR	0.047 16V
C14	NCB31CK-473X	CER.CAPACITOR	0.047 16V	C307	NDC31HJ-220X	CER.CAPACITOR	22p 50V
C15	NCB31CK-104X	CER.CAPACITOR	0.1 16V	C314	NDC31HJ-680X	CER.CAPACITOR	68p 50V
C17	NCB31CK-473X	CER.CAPACITOR	0.047 16V	C315	NEH90JM-476X	E.CAPACITOR	47 6.3V
C23	NCB31CK-104X	CER.CAPACITOR	0.1 16V	C317	NCB31CK-473X	CER.CAPACITOR	0.047 16V
C24	NCB31CK-104X	CER.CAPACITOR	0.1 16V	C318	NCB31CK-473X	CER.CAPACITOR	0.047 16V
C25	NCB31CK-104X	CER.CAPACITOR	0.1 16V	C319	NEH90JM-476X	E.CAPACITOR	47 6.3V
C26	NCB31EK-103X	CER.CAPACITOR	0.01 25V	C320	NCB31CK-473X	CER.CAPACITOR	0.047 16V
C29	NCB31CK-473X	CER.CAPACITOR	0.047 16V	C321	NEH90JM-476X	E.CAPACITOR	47 6.3V
C61	NCB31EK-103X	CER.CAPACITOR	0.01 25V	C401	NEH90JM-476X	E.CAPACITOR	47 6.3V
C62	NCB31EK-103X	CER.CAPACITOR	0.01 25V	C402	NEH91CM-476X	E.CAPACITOR	47 16V
C63	NCB31EK-103X	CER.CAPACITOR	0.01 25V	C403	NDC31HJ-121X	CER.CAPACITOR	120p 50V
C64	NCB31EK-103X	CER.CAPACITOR	0.01 25V	C404	NDC31HJ-560X	CER.CAPACITOR	56p 50V
C65	NCZ1024-103X	CER.CAPACITOR	0.01	C405	NCB31CK-473X	CER.CAPACITOR	0.047 16V
C66	NCB31CK-104X	CER.CAPACITOR	0.1 16V	C407	NDC31HJ-220X	CER.CAPACITOR	22p 50V
C67	NCB31CK-104X	CER.CAPACITOR	0.1 16V	C414	NDC31HJ-680X	CER.CAPACITOR	68p 50V
C68	NCB31CK-104X	CER.CAPACITOR	0.1 16V	C415	NEH90JM-476X	E.CAPACITOR	47 6.3V
C69	NCB31CK-104X	CER.CAPACITOR	0.1 16V	C417	NCB31CK-473X	CER.CAPACITOR	0.047 16V
C71	NCB31CK-104X	CER.CAPACITOR	0.1 16V	C418	NCB31CK-473X	CER.CAPACITOR	0.047 16V
C72	NCB31CK-104X	CER.CAPACITOR	0.1 16V	C420	NCB31CK-473X	CER.CAPACITOR	0.047 16V
C74	NCB31CK-473X	CER.CAPACITOR	0.047 16V	C421	NEH90JM-476X	E.CAPACITOR	47 6.3V
C75	NCB31CK-104X	CER.CAPACITOR	0.1 16V	C422	NEH90JM-476X	E.CAPACITOR	47 6.3V
C76	NCB31CK-104X	CER.CAPACITOR	0.1 16V	C501	NEH90JM-476X	E.CAPACITOR	47 6.3V
C77	NCB31CK-104X	CER.CAPACITOR	0.1 16V	C502	NDC31HJ-151X	CER.CAPACITOR	150p 50V (U)
				C502	NDC31HJ-121X	CER.CAPACITOR	120p 50V (E)
				C504	NCB31CK-473X	CER.CAPACITOR	0.047 16V
				C505	NCB31CK-473X	CER.CAPACITOR	0.047 16V

Symbol No.	Part No.	Part Name	Description		Symbol No.	Part No.	Part Name	Description
C507	NCB31CK-473X	CER.CAPACITOR	0.047	16V	S601	QSW0608-001	SLIDE SWITCH	TALLY V/M
C508	NDC31HJ-7R0X	CER.CAPACITOR	7p	50V	S602	QSW0608-001	SLIDE SWITCH	RTS/2W
C509	NDC31HJ-560X	CER.CAPACITOR	56p	50V (U)	S603	QSW0323-001	SLIDE SWITCH	DYNAMIC/CARBON
C510	NDC31HJ-470X	CER.CAPACITOR	47p	50V (E)	CN1	QGA2001C1-15	CONNECTOR	15PIN
	NDC31HJ-8R0X	CER.CAPACITOR	8p	50V (U)	CN2	SM3490-004	CONNECTOR	4PIN
C511	NDC31HJ-5R0X	CER.CAPACITOR	5p	50V (E)	CN4	QGF0508C1-26W	CONNECTOR	26PIN
	NDC31HJ-560X	CER.CAPACITOR	56p	50V (U)	CN5	QGF0508C1-26W	CONNECTOR	26PIN
	NDC31HJ-470X	CER.CAPACITOR	47p	50V (E)	CN8	SM3490-004	CONNECTOR	4PIN
C512	NDC31HJ-8R0X	CER.CAPACITOR	8p	50V (U)	CN9	SM3490-004	CONNECTOR	4PIN
	NDC31HJ-5R0X	CER.CAPACITOR	5p	50V (E)	CN12	SM3490-005	CONNECTOR	5PIN
C513	NEH90JM-476X	E.CAPACITOR	47	6.3V	CN15	QGF0508C1-26W	CONNECTOR	26PIN
C514	NCB31CK-473X	CER.CAPACITOR	0.047	16V	CN23	QGA2001C1-05	CONNECTOR	5PIN
C515	NCB31CK-473X	CER.CAPACITOR	0.047	16V	CN26	SM3490-003	CONNECTOR	3PIN
C516	NCB31CK-473X	CER.CAPACITOR	0.047	16V	TP8	NNZ0009-001X	TEST POINT	TP8-608
C517	NCB31CK-473X	CER.CAPACITOR	0.047	16V	FC101	QNG0037-001Z	FUSE HOLDER	
C518	NCB31CK-473X	CER.CAPACITOR	0.047	16V	FC102	QNG0037-001Z	FUSE HOLDER	
C519	NCB31CK-473X	CER.CAPACITOR	0.047	16V	FC201	QNG0037-001Z	FUSE HOLDER	
C520	NCB31CK-473X	CER.CAPACITOR	0.047	16V	FC202	QNG0037-001Z	FUSE HOLDER	
C522	NDC31HJ-150X	CER.CAPACITOR	15p	50V	JK1	QND0016-001	S JACK	
C523	NCB31CK-473X	CER.CAPACITOR	0.047	16V	JK2	SCV1027	BNC CONNECTOR	Y/C OUT
C524	NCB31CK-473X	CER.CAPACITOR	0.047	16V	JK3	QNZ0533-001	BNC CONNECTOR	VIDEO OUT
C525	NEH90JM-476X	E.CAPACITOR	47	6.3V	JK4	QNZ0533-001	BNC CONNECTOR	GENLOCK IN
C528	NCB31CK-473X	CER.CAPACITOR	0.047	16V	K1	NQR0022-003X	FERRITE BEADS	AUX VIDEO IN
C529	NCB31CK-473X	CER.CAPACITOR	0.047	16V	△TB1	QNB0132-001	EARTH TERMINAL	
C601	NEH91HM-105X	E.CAPACITOR	1	50V	HS1	QZW0068-001	HEAT SINK	
C602	NCB31CK-104X	CER.CAPACITOR	0.1	16V	SC1	QYSPSPD3008N	SCREW	M3x8, FOR HS1
C603	NEH91HM-105X	E.CAPACITOR	1	50V				
C604	NCB31CK-104X	CER.CAPACITOR	0.1	16V				
C605	NEH71EM-476X	E.CAPACITOR	47	25V				
C606	NCB31CK-104X	CER.CAPACITOR	0.1	16V				
C607	NCB31CK-104X	CER.CAPACITOR	0.1	16V				
C608	NEN21EM-106X	N.P.CAPACITOR	10	25V				
C609	NDC31HJ-102X	CER.CAPACITOR	1000p	50V				
C610	NEN21EM-475X	N.P.CAPACITOR	4.7	25V				
C611	NDC31HJ-102X	CER.CAPACITOR	1000p	50V				
C612	NCB31EK-103X	CER.CAPACITOR	0.01	25V				
C613	NDC31HJ-102X	CER.CAPACITOR	1000p	50V				
C614	NDC31HJ-102X	CER.CAPACITOR	1000p	50V				
C615	NEH71EM-107X	E.CAPACITOR	100	25V				
C616	NCB31HK-332X	CER.CAPACITOR	3300p	50V				
C617	NCB31EK-333X	CER.CAPACITOR	0.033	25V				
C618	NDC31HJ-101X	CER.CAPACITOR	100p	50V				
C619	NCB31CK-104X	CER.CAPACITOR	0.1	16V				
C620	NCB31CK-473X	CER.CAPACITOR	0.047	16V				
C621	NEN21EM-106X	N.P.CAPACITOR	10	25V				
C622	NCB31CK-104X	CER.CAPACITOR	0.1	16V				
C623	NCB31CK-104X	CER.CAPACITOR	0.1	16V				
C624	NEN21EM-106X	N.P.CAPACITOR	10	25V				
C625	NEH91HM-105X	E.CAPACITOR	1	50V				
C626	NCB31CK-104X	CER.CAPACITOR	0.1	16V				
C627	NDC31HJ-101X	CER.CAPACITOR	100p	50V				
C628	NDC31HJ-101X	CER.CAPACITOR	100p	50V				
C629	NEH71EM-476X	E.CAPACITOR	47	25V				
C630	NDC31HJ-102X	CER.CAPACITOR	1000p	50V				
C631	NCB31CK-473X	CER.CAPACITOR	0.047	16V				
C632	NEH91HM-105X	E.CAPACITOR	1	50V				
C633	NEH71EM-107X	E.CAPACITOR	100	25V				
L1	QQR0035-001	COIL						
L4	QQR0035-001	COIL						
L5	QQR1227-001	COIL						
L501	NQL114K-100X	COIL	10uH					
L502	NQL114K-100X	COIL	10uH					
L503	NQL114K-100X	COIL	10uH					
L504	NQL054K-120X	COIL	12uH					
X2	NAX0137-001X	CRYSTAL						
TH901	QAD0135-150	THERMISTOR	15					
S1	NSVV0022-001X	DIP SWITCH						

5.2 FR1 BOARD ASSEMBLY PARTS LIST [02]

SCK2655-02-00A

02

Symbol No.	Part No.	Part Name	Description
IC700	TC74HC4094AF-X	I.C.(M)	TOSHIBA
IC701	TC74HC74AF-X	I.C.(M)	TOSHIBA
IC702	TC74HC165AF-X	I.C.(M)	TOSHIBA
IC703	TC74HC14AF-X	I.C.(M)	TOSHIBA
IC704	TC74HC165AF-X	I.C.(M)	TOSHIBA
D700	MA143A-X	DIODE	MATSUSHITA
D701	MA143A-X	DIODE	MATSUSHITA
D702	MA143A-X	DIODE	MATSUSHITA
D703	MA143A-X	DIODE	MATSUSHITA
D704	MA143A-X	DIODE	MATSUSHITA
D705	MA143A-X	DIODE	MATSUSHITA
D706	MA143A-X	DIODE	MATSUSHITA
D707	MA143A-X	DIODE	MATSUSHITA
D708	MA143A-X	DIODE	MATSUSHITA
D709	MA143A-X	DIODE	MATSUSHITA
D710	MA143A-X	DIODE	MATSUSHITA
D711	MA143A-X	DIODE	MATSUSHITA
D712	MA143A-X	DIODE	MATSUSHITA
D713	MA143A-X	DIODE	MATSUSHITA
D714	MA143A-X	DIODE	MATSUSHITA
D715	MA143A-X	DIODE	MATSUSHITA
D716	MA143A-X	DIODE	MATSUSHITA
D717	MA143A-X	DIODE	MATSUSHITA
LD700	SLR-332MG3F	L.E.D.	ROHM
LD701	SLR-332MG3F	L.E.D.	ROHM
HD1	SC43656-065	LED SPACER	FOR LD700,701
R700	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R701	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R702	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R703	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R704	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R705	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R706	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R707	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R708	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R709	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R710	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R711	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R712	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R713	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R714	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R715	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R716	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R717	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R718	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R719	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R720	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R721	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R722	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R723	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R724	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R725	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R726	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R727	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R728	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R729	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R730	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R731	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R732	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R733	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
VR700	QVQ0305B14	VAL.RESISTOR	10k IRIS
VR701	QVQ0305B14	VAL.RESISTOR	10k MASTER BLK
VR702	QVQ0305B14	VAL.RESISTOR	10k WHITE B
VR703	QVQ0305B14	VAL.RESISTOR	10k WHITE R

Symbol No.	Part No.	Part Name	Description
C700	NEH91AM-336X	E.CAPACITOR	33 10V
C701	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C702	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C703	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C704	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C705	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C706	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C707	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C708	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C709	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C710	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C711	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C712	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C713	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C714	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C715	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C716	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C717	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C718	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C719	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C720	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C721	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C722	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C723	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C724	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C725	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C726	NCB31CK-104X	CER.CAPACITOR	0.1 16V
S700	QSW0935-002	PUSH SWITCH	MANU
S701	QSW0935-002	PUSH SWITCH	AUT W
S702	QSW0935-002	PUSH SWITCH	W.PNT
S703	QSW0935-002	PUSH SWITCH	MENU
S704	QSW0935-002	PUSH SWITCH	F4
S705	QSW0935-002	PUSH SWITCH	F3
S706	QSW0934-001	ROTARY SWITCH	GAIN
S707	QSW0934-001	ROTARY SWITCH	SHUTTER
S708	QSW0049-001	TOGGLE SWITCH	WHITE SELECT
S709	QSW0049-001	TOGGLE SWITCH	GAIN SELECT
CN700	QGF0508F2-26X	CONNECTOR	26PIN
SB1	QSW0940-001	SW BUTTON	FOR S700-705

**5.3 FR2 BOARD ASSEMBLY PARTS LIST [03]**

SCK2655-03-00A

[03] [ ] [ ] [ ] [ ] [ ]

Symbol No.	Part No.	Part Name	Description
D800	MA143A-X	DIODE	MATSUSHITA
D801	MA143A-X	DIODE	MATSUSHITA
D802	MA143A-X	DIODE	MATSUSHITA
D803	MA143A-X	DIODE	MATSUSHITA
D804	MA143A-X	DIODE	MATSUSHITA
D805	MA143A-X	DIODE	MATSUSHITA
D806	MA143A-X	DIODE	MATSUSHITA
D807	MA143A-X	DIODE	MATSUSHITA
D808	MA143A-X	DIODE	MATSUSHITA
D809	MA143A-X	DIODE	MATSUSHITA
D810	MA143A-X	DIODE	MATSUSHITA
D811	MA143A-X	DIODE	MATSUSHITA
LD800	HLMP-2965	L.E.D.	
HD800	QNV0034-008	LED HOLDER	FOR LD800
R800	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R801	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R802	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R803	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R804	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R805	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R806	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R807	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R808	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R809	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R810	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R811	NRSA63J-471X	M.G.RESISTOR	470 1/16W
VR800	QVQ0305-A54	VAL.RESISTOR	50k INCOM
C800	NEH91AM-336X	E.CAPACITOR	33 10V
C801	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C802	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C803	NCB31EK-103X	CER.CAPACITOR	0.01 25V
C804	NCB31EK-103X	CER.CAPACITOR	0.01 25V
S800	QSW0935-002	PUSH SWITCH	GREEN(BARS)
S801	QSW0935-001	PUSH SWITCH	RED(CALL)
S802	QSW0935-002	PUSH SWITCH	GREEN(F1)
S803	QSVV0935-002	PUSH SWITCH	GREEN(F2)
S804	QSVV0935-003	PUSH SWITCH	YELLOW(FULL AUT)
SB1	QSVV0940-001	SW BUTTON	FOR S800-804
CN800	QGF0508F2-26X	CONNECTOR	26PIN

**5.4 CC BOARD ASSEMBLY PARTS LIST [04]**

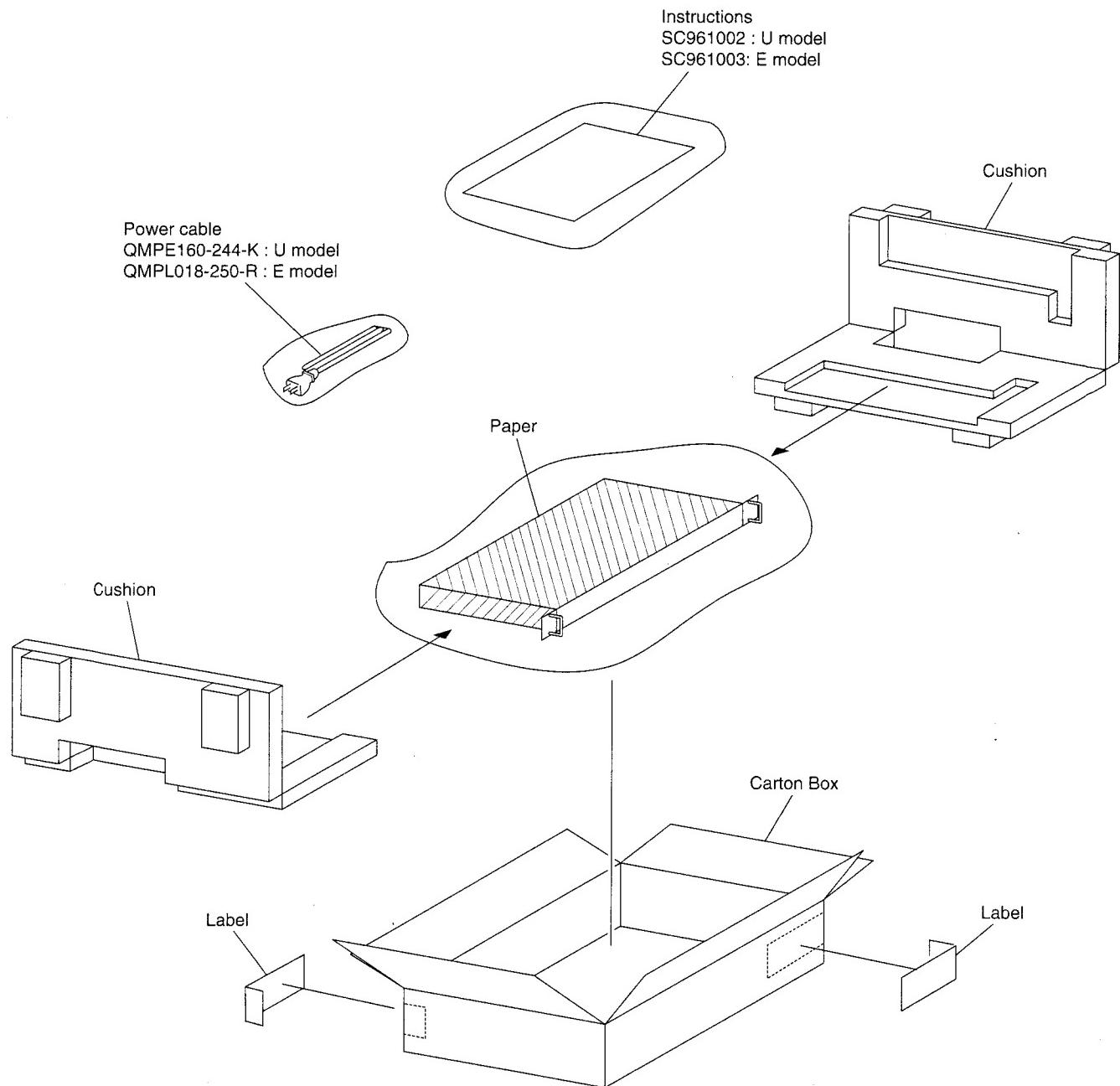
SCK2655-04-00A

[04] [ ] [ ] [ ] [ ] [ ]

Symbol No.	Part No.	Part Name	Description
R282	NRSA63J-121X	M.G.RESISTOR	120 1/16W
R283	NRSA63J-121X	M.G.RESISTOR	120 1/16W
R284	NRSA63J-750X	M.G.RESISTOR	75 1/16W
R285	NRSA63J-750X	M.G.RESISTOR	75 1/16W
R286	NRSA63J-121X	M.G.RESISTOR	120 1/16W
R287	NRSA63J-750X	M.G.RESISTOR	75 1/16W
R288	NRSA63J-121X	M.G.RESISTOR	120 1/16W
R289	NRSA63J-750X	M.G.RESISTOR	75 1/16W
S35	NSW0022-003X	DIP SWITCH	
S36	NSW0022-003X	DIP SWITCH	
CN16	QGF0508C1-26W	CONNECTOR	26PIN
CN17	QNZ0246-001	CONNECTOR	26PIN
CN21	QGA3901C1-02	CONNECTOR	2PIN
NP1	SC43454-001	NUT PLATE	

## SECTION 6 PACKING

### 6.1 PACKING ASSEMBLY M1



- The factory setting of volume and switch

**Note:** Accessories above are subject to change without notice.

Name (Front panel)	Setting
IRIS	Center position
MASTER BLACK	
WHITE R, B	
INTERCOM LEVEL	
GAIN STEP switch	LOW
W. BAL switch	PRESET